

User Manual

**32PT9100D
26PW9100D
30PW9100D
30PW9110D**



For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____
Serial No. _____

PHILIPS

Return your Product Registration Card today to get the very most from your purchase.

Registering your model with PHILIPS makes you eligible for all of the valuable benefits listed below, so don't miss out. Complete and return your Product Registration Card at once to ensure:

*Proof of Purchase

Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

*Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

*Additional Benefits of Product Ownership

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

PHILIPS

**Congratulations on your purchase,
and welcome to the "family!"**

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

**P.S. To get the most from your PHILIPS purchase,
be sure to complete and return your Product
Registration Card at once.**

Know these
safety symbols



! This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

! The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

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IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this TV near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the TV. When a cart is used, use caution when moving the cart/TV combination to avoid injury from tip-over.
13. Unplug this TV during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the TV has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the TV has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. Damage Requiring Service - The TV should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the TV; or
 - C. The TV has been exposed to rain; or
- D. The TV does not appear to operate normally or exhibits a marked change in performance; or
- E. The TV has been dropped, or the enclosure damaged.

17. Tilt/Stability - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.

- Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
- Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.

18. Wall or Ceiling Mounting - The TV should be mounted to a wall or ceiling only as recommended by the manufacturer.

19. Power Lines - An outdoor antenna should be located away from power lines.

20. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.

21. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

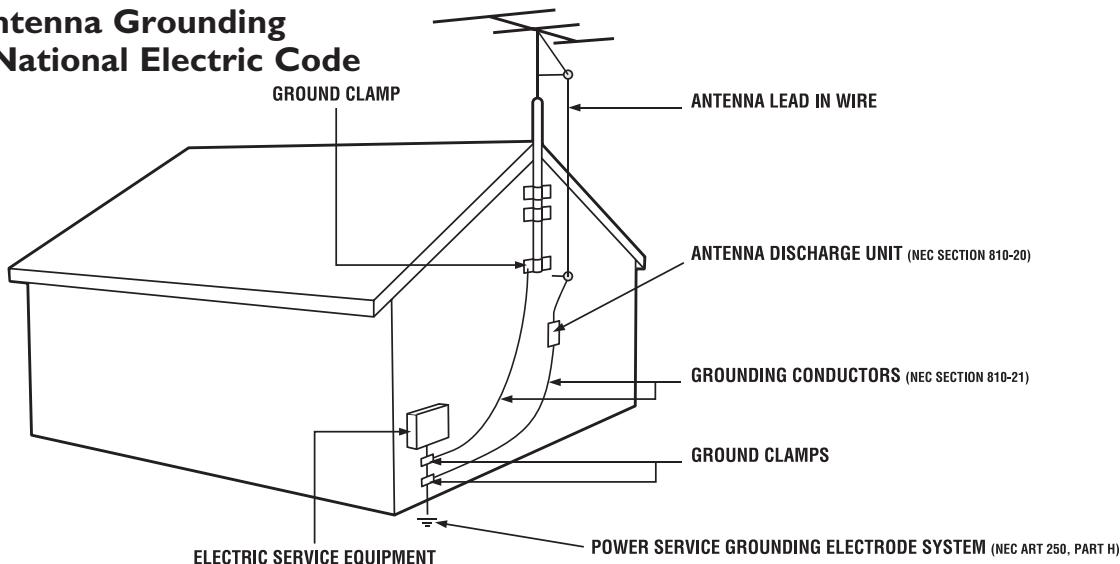
- a) Warning: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

22. Battery Usage CAUTION - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:

- Install all batteries correctly, with + and - aligned as marked on the unit.
- Do not mix batteries (old and new or carbon and alkaline, etc.).
- Remove batteries when the unit is not used for a long time.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code



A Guide to Digital TV

What is Digital Television (DTV)?

Digital Television (DTV) is a relatively new type of broadcasting that promises to transform television viewing into a whole new experience. Digital technology is used to capture images and sound to deliver a better picture quality. DTV technology is also capable of multicasting and interactive capabilities.

There are many levels of digital television quality. The most common are:

Standard Definition TV (SDTV)

SDTV is the basic level of quality display and resolution for both analog and digital. Transmission of SDTV can be in the traditional (4:3) or widescreen (16:9) format.

Enhanced Definition TV (EDTV)

EDTV is better in picture quality than analog television. The formats for EDTV are 480p widescreen (16:9) or traditional (4:3). EDTV is in the middle range quality between SDTV and HDTV.

High Definition TV (HDTV)

HDTV has the highest quality for digital broadcast formats. Its resolution is widescreen format (16:9). Combined with digitally enhanced sound technology, HDTV sets new standards for sound and picture quality in television.

Digital Television is a more flexible and efficient technology than the analog broadcast system. Analog broadcasts can only provide one program at a time. Digital television can broadcast a high definition program or more than one standard definition program at the same time. This is often referred to as "multicasting". Digital television can also give you interactive video and data services through a single digital channel.

Attention !! Quick Tips before you start

- 1 When the television is powered-on for the first time it will always be in **Digital Mode**.
- 2 Pressing the **A/D** button on the remote control toggles the TV between **Digital** and **Analog Mode**.
- 3 Select the correct Tuner mode in the television on-screen menu before starting the Auto Programing (refer to page 9).
- 4 It is necessary to **Auto Program** the television in order to receive the channels that are broadcasted locally (refer to page 10).
- 5 **Auto Programing** must be **activated in Digital Mode** in order **to install both Digital and Analog channels**.
- 6 When Auto program is activated in analog mode **ONLY** Analog channels will be installed.
- 7 Auto Program may take **20 to 40 minutes** depending on the number of channels that are transmitted by the cable provider or broadcaster.
- 8 When the TV **is not receiving a Digital Signal** from the antenna / cable, **WEAK DIG.** error message will appear on the television screen.
- 9 You **will not be able to receive pay channels** when using direct antenna / cable connection to the television.
- 10 When the Set-top box is connected to the television using coaxial cable, it is necessary to auto-program the television for the single channel (3 or 4) that the Set-top box outputs and change the channels at the Set-top Box to view the program.
- 11 When the Set-top box is connected to the television using **AV** connection, select the television input source for the Set-top box to view the program and change the channels at the Set-top Box to view the program.

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FEATURES

Active Control continuously measures and corrects all incoming signals to help provide the best picture quality. This feature monitors and corrects both the sharpness control and noise reduction control (Pg. 17).

Audio Volume Leveler (AVL) Control keeps the TV sound at an even level. Differences in volume levels during commercial breaks are reduced, making for a more consistent, comfortable sound for your listening pleasure (Pg. 19).

AutoChron sets the clock of the TV automatically or manually. For automatic selection, there will be queries for Time Zone, Day Light saving and channel to seek clock. For manual selection, you need to key in the time. (Pg. 13).

AutoLock lets you block channels or programs from viewing with content not suitable for children or with restricted TV ratings (Pg. 21).

AutoPicture lets you change the picture settings (color, tint, contrast, etc.) for various types of programming, such as sports, movies, multimedia (games), or weak signals with the push of one button (Pg. 18).

AutoSound lets you select from four pre-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The four pre-set controls (Speech, Movie, Music, and Multimedia) lets you custom set the TV sound to enhance the particular programming you are watching (Pg. 19).

Channel Edit lets you add or delete channels from the list stored in the TV memory. Channel Edit makes it easy to limit or expand the number of channels that are available to you when you press the Channel (+) or (-) buttons on your remote control (Pg. 12).

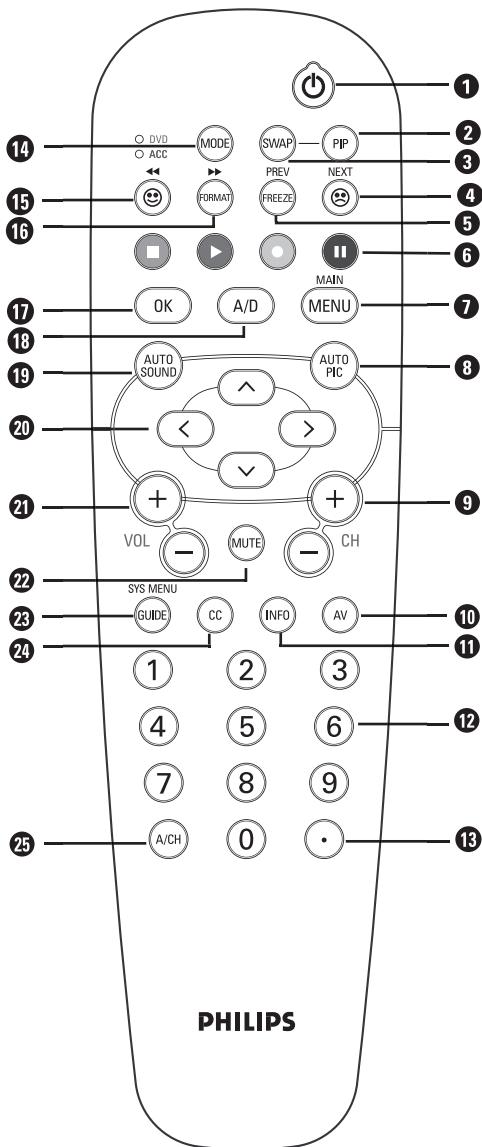
Closed Captioning allows the viewer to read TV program dialogue or voice conversations as onscreen text. (Pg. 27-28).

As an Energy Star® Partner, Philips Consumer Electronics has determined this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.

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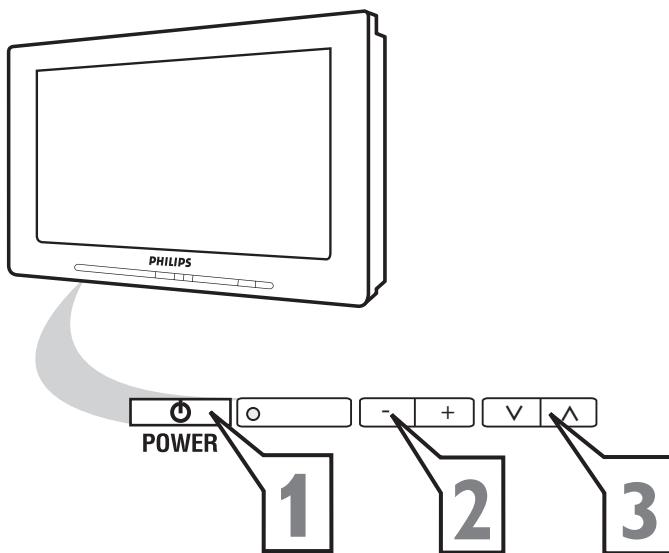
DESCRIPTION OF REMOTE CONTROL BUTTONS



- ① **POWER** Button - Press to turn the TV On or Off.
- ② **PIP** Button - To activate Picture-in-Picture feature.
- ③ **SWAP** Button - To swap program on the main screen with program in the PIP window.
- ④ **FROWNIE** Button - To delete channels from the Favorite lists.
- ⑤ **FREEZE** Button - To freeze picture on the TV screen.
- ⑥ **■, ▶, ●, and II**, Buttons - Used with an external device when the ACC mode is selected. Press Stop **■**, Play **▶**, Record **●** or Pause **II**.
- ⑦ **MENU** Button - To display the main menu.
- ⑧ **AUTO PIC** Button - To select from five pre-defined picture settings. (Personal, Movies, Sports, Weak Signal, or Multimedia).
- ⑨ **CH(annel) + or CH(annel)-** Buttons To select channels in ascending or descending order.
- ⑩ **AV** Button - To select different signal sources connected to the AV inputs on the TV.
- ⑪ **INFO** Button - To display channel number, sound mode, time and status of the sleep timer, etc.
- ⑫ **NUMBERIC (0-9)** Buttons - To select TV channels or enter values in the on-screen menu. For single channel entries, press the numbered button for the channel you desire. The TV will pause for a second or two before changing to the chosen channel.
- ⑬ **DOT** Button - To enter values for minor channels eg. 36.4
- ⑭ **MODE** Button - To control TV, DVD, ACC, DBS, VCR, etc., functions.
- ⑮ **SMILEY** Button - To add channels to the "Quadsurf" lists.
- ⑯ **FORMAT** Button - To select picture format.
- ⑰ **OK** Button - To activate selection when programming remote control.
- ⑱ **A/D (ANALOG/DIGITAL)** Button - To select Analog or Digital mode.
- ⑲ **AUTO SOUND** Button - To select factory-defined sound settings. (Theatre, Music, or Voice).
- ⑳ **CURSOR** Buttons (<, >, ^, v) To highlight and select items on the TV onscreen menu.
- ㉑ **VOL(ume) + / -** Buttons To increase or decrease the TV sound level.
- ㉒ **GUIDE** Button - To display current program information.
- ㉓ **CC** Button - Closed Captioning.
- ㉔ **A/CH** (Alternate Channel) Button - Toggle between last viewed and current channel.
- ㉕ **MUTE** Button - To cut out the sound from the TV.

BASIC TV AND REMOTE CONTROL OPERATION

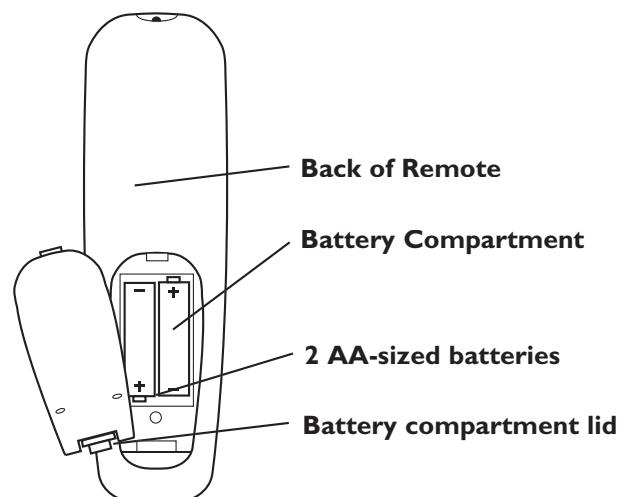
- 1** Press **POWER** button on the TV to turn it on. Pressing any button on the front panel of the TV will also turn the TV On.
- 2** Press the **VOLUME +** to increase the sound level and **VOLUME -** to lower the sound level.
Pressing both buttons together will display the onscreen menu. While in menu mode, use these buttons to make adjustments or selections.
- 3** Press **CHANNEL +** or **-** to select TV channels.
- 4** Point the remote control towards the remote sensor window on the front of the TV when using the remote control.
- 5** Press **MENU** button on the remote to display the onscreen menu.



REMOTE CONTROL

How to load the supplied batteries into the remote control.

- 1** Remove the battery compartment lid on the back of the remote control.
- 2** Insert two AA-sized batteries into the battery compartment, making sure the positive + and negative - polarity line up correctly as indicated inside the case.
- 3** Close the battery lid.

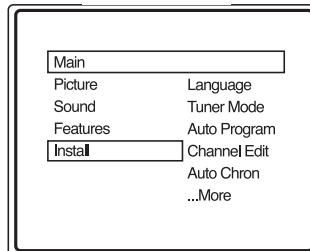


HOW TO USE THE LANGUAGE CONTROL

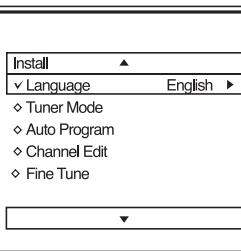
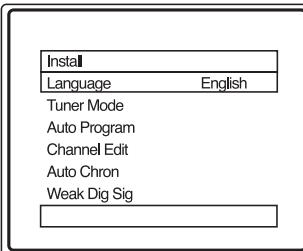
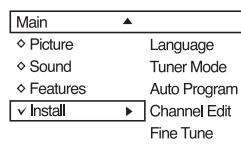
For French and Spanish speaking TV owners an onscreen Language option is present. With the Language control you can set the TV's on-screen menu to be shown in English, French, or Spanish.

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR** \wedge or \vee to scroll though the onscreen menu until you see **Install** highlighted.
- 3 Press **CURSOR** $>$ to display the **Install** menu features.
- 4 Press **CURSOR** \wedge or \vee to scroll through the **Install** features until you see **Language** highlighted.
- 5 Press **CURSOR** $>$ to select English, Français (French) or Español (Spanish).
- 6 When finished, press **MENU** twice to exit the menu from the TV screen.
- 7 Press **A/D** to switch between Digital and Analog Channels.

Digital Mode



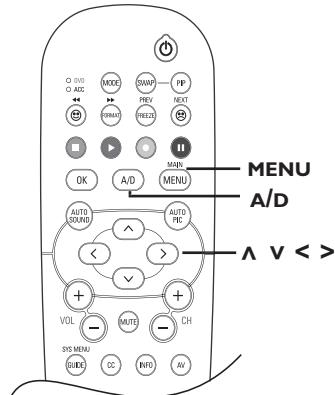
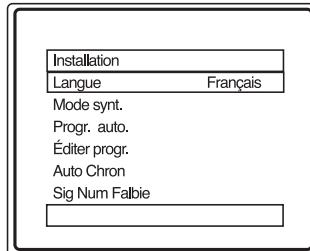
Analog Mode



OR



OR



HELPFUL HINT

The Language control only makes the TV on-screen Menu items appear in English, Spanish, or French text.

It does not change the other on-screen text features such as Closed Caption (CC) TV programmes.

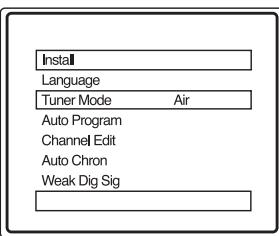
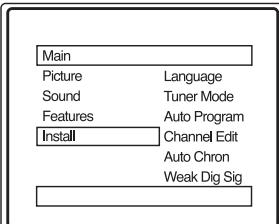
HOW TO USE THE TUNER MODE CONTROL

The TUNER MODE control lets you change the TV input signal to ANTENNA or CABLE mode. It is important that you know which type of signal to look for (Cable TV or Antenna).

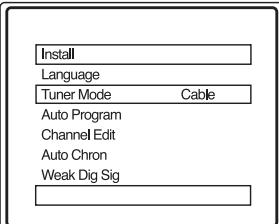
Follow these steps for Digital Mode

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR** \wedge or \vee to scroll though the onscreen menu until you see **Install** highlighted.
- 3 Press **CURSOR** $>$ to display the **Install** menu features.
- 4 Press **CURSOR** \wedge or \vee to scroll through the **Install** features until you see **Tuner Mode** highlighted.
- 5 Press **CURSOR** $>$ to select **Antenna** or **Cable**.
- 6 When finished, press **MENU** twice to exit the menu from the TV screen.

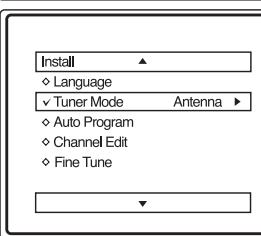
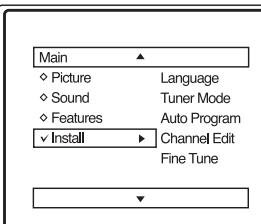
Digital Mode



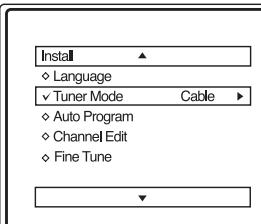
OR



Analog Mode

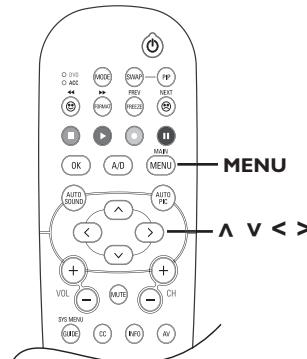


OR



Follow these steps for Analog Mode

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR** \wedge or \vee to scroll though the onscreen menu until you see **Install** highlighted.
- 3 Press **CURSOR** $>$ to display the **Install** menu features.
- 4 Press **CURSOR** \wedge or \vee to scroll through the **Install** features until you see **Tuner Mode** highlighted.
- 5 Press **CURSOR** $>$ to select **Antenna** or **Cable**.
- 6 When finished, press **MENU** twice to exit the menu from the TV screen.



HELPFUL HINTS

When **CABLE** is selected, channels 1-125 are available.

When **ANTENNA** is selected, channels 2-69 are available.

Use the **A/D** button on the Remote Control to switch between Digital and Analog channels.

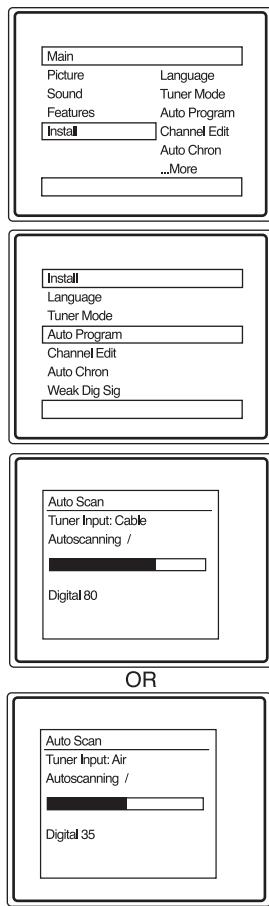
AUTOMATIC PROGRAM

You can program the TV to automatically set itself for local area (or Cable TV) channels. This makes it easy for you to select only the TV stations in your area when the CHANNEL (+), (-) buttons are pressed.

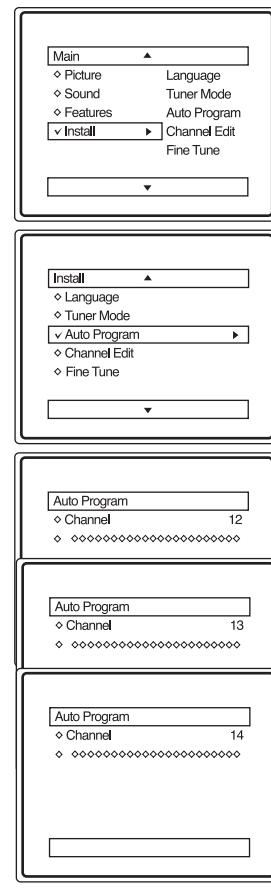
Follow these steps for Digital Mode

- 1 Complete the antenna or cable signal connection before activating **AUTO PROGRAM**.
- 2 Press **MENU** on the remote control to display the onscreen menu.
- 3 Press **CURSOR** \wedge or \vee to scroll though the onscreen menu until you see **Install** highlighted.
- 4 Press **CURSOR** $>$ to display the Install menu features.
- 5 Press **CURSOR** \wedge or \vee to scroll through the Install features until you see **Auto Program** highlighted.
- 6 Press **CURSOR** $>$ to start the select **antenna** or **cable** mode.
- 7 Autoscan will begin. This may take **20** to **40** minutes depending on the number of channels available. When finished, press **MENU** twice to exit the menu display from the TV screen.
- 8 Press **A/D** to switch between Digital and Analog channels to view your programs.

Digital Mode

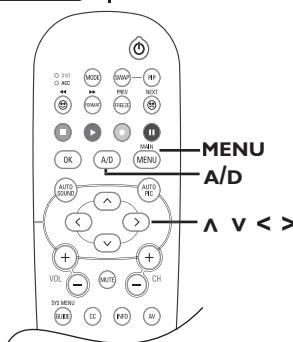


Analog Mode



Follow these steps for Analog Mode

- 1 Complete the antenna or cable signal connection before activating **AUTO PROGRAM**.
- 2 Press **MENU** on the remote control to display the onscreen menu.
- 3 Press **CURSOR** \wedge or \vee to scroll though the onscreen menu until you see **Install** highlighted.
- 4 Press **CURSOR** $>$ to display the Install menu features.
- 5 Press **CURSOR** \wedge or \vee to scroll through the Install features until you see **Auto Program** highlighted.
- 6 Press **CURSOR** $>$ to select **antenna** or **cable** mode.
- 7 When finished, press **MENU** twice to exit the menu from the TV screen.
- 8 Press **A/D** to switch between Digital and Analog channels to view your programs.



HELPFUL HINTS

When CABLE is selected, channels 1-135 are available in Digital Mode and Channels 1-125 are available in Analog Mode.

When ANTENNA is selected, channels 2-69 are available for both Digital and Analog Modes.

When you install in Digital mode, it will install both Digital and Analog channels

CHANNEL EDIT (ADD OR DELETE CHANNELS)

Channel Edit lets you ADD or DELETE channels from the list of channels stored in the TV memory.

Follow these steps for Digital Mode

1 Press **MENU** on the remote control to display the onscreen menu.

2 Press **CURSOR** \wedge or \vee to scroll though the onscreen menu until you see **Install** highlighted.

3 Press **CURSOR** $>$ to display the **Install** menu features.

4 Press **CURSOR** \wedge or \vee to scroll through the **Install** features until you see **Channel Edit** highlighted.

5 Press **CURSOR** $>$ to display the **Channel Edit** options.

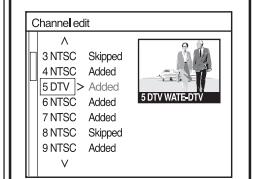
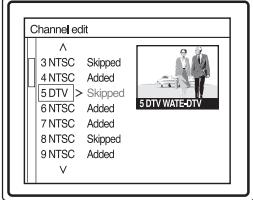
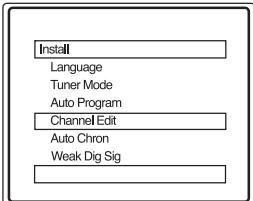
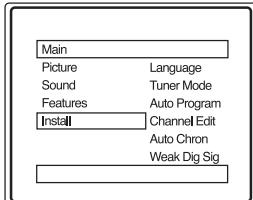
6 With the **Channel Edit** options displayed and **Channel** highlighted, you can use the **CURSOR** \wedge or \vee to scroll through all available channels that you wish to add or delete (Skipped) from the TV memory.

7 Use **CURSOR** \vee to scroll the menu to highlight the channel you wish to add or skip.

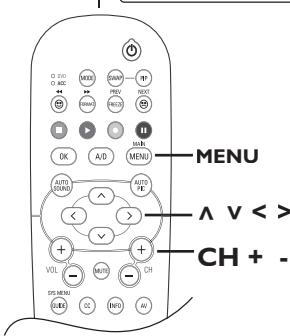
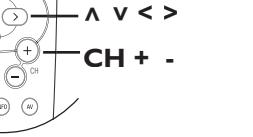
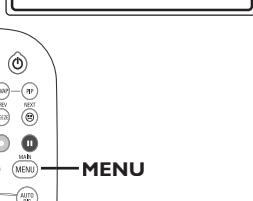
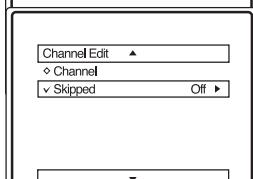
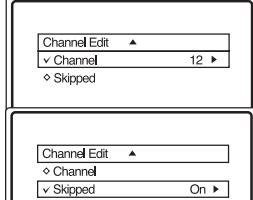
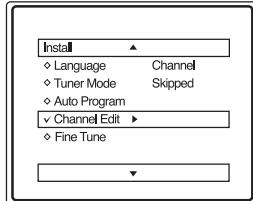
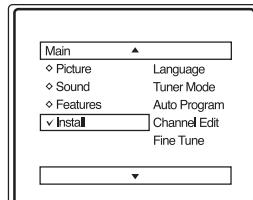
8 Now use **CURSOR** $>$ to toggle between **Added** or **Skipped**. If **Skipped** is selected, the channels will be skipped when scrolling channels with the **CH+** or **CH-**. If **Added** is selected, the channels will not be skipped when scrolling channels with the **CH+** or **CH-**.

9 When finished, press **MENU** three times to exit the menu from the TV screen.

Digital Mode



Analog Mode



Follow these steps for Analog Mode

1 Press **MENU** on the remote control to display the onscreen menu.

2 Press **CURSOR** \wedge or \vee to scroll through the onscreen menu until you see **Install** highlighted.

3 Press **CURSOR** $>$ to display the **Install** menu features.

4 Press **CURSOR** \wedge or \vee to scroll through the **Install** features until you see **Channel Edit** highlighted.

5 Press **CURSOR** $>$ to display the **Channel Edit** options.

6 With the **Channel Edit** options displayed and **Channel** highlighted, you can use the **CURSOR** \wedge or \vee to scroll through all the available channels that you wish to add or delete (Skipped) from the TV memory.

You can also use the numeric buttons to go directly to a specific numbered channel that you want to add or skip. Or, you can also use the **CH+** or **CH-** to quickly scan through the channels that have not been skipped.

7 Use **CURSOR** \vee to scroll the menu until **SKIPPED** is highlighted.

8 Now use **CURSOR** $>$ to toggle between **On** and **Off**. If **On** is selected the channels will be skipped when scrolling channels with the **CH+** or **CH-**. If **Off** is selected the channels will not be skipped when scrolling channels with the **CH+** or **CH-**.

9 When finished, press **MENU** three times to exit the menu from the TV screen.

HELPFUL HINTS

In analog mode, an "X" will be displayed in front of any channel number to indicate that the channel has skipped. When the **CH+** or **CH-** buttons are used, those channels will be skipped.

To switch between Digital and Analog channels, use the **A/D** button on the Remote Control.

AUTO CHRON (SYCHRONISATION OF TIME)

Auto Chron sets the clock of the TV automatically or manually. For automatic selection, there will be queries for Time Zone, Day Light saving and channel to seek clock. For manual selection, you need to key in the time. This feature is only available in Digital Mode.

Follow these steps for Automatic Selection

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR \wedge or \vee** to scroll through the onscreen menu until you see **Install** highlighted.
- 3 Press **CURSOR $>$** to display the Install menu features.
- 4 Press **CURSOR \wedge or \vee** to scroll through the Install features until you see **Auto Chron** highlighted.
- 5 Press **CURSOR $>$** to display the Auto Chron options - **Auto** and **Manual**.

With the Auto Chron options displayed and **Auto** highlighted, you can set the clock of the TV automatically.

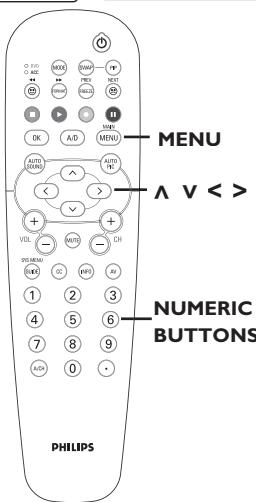
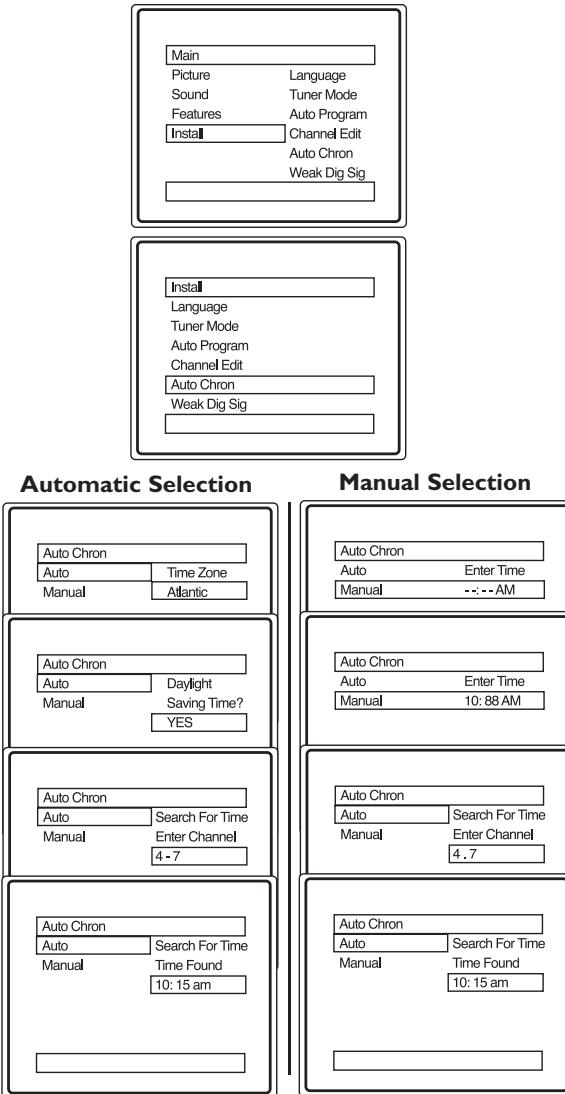
- 6 Press **CURSOR $>$** enter the Time Zone option. Press **CURSOR \wedge or \vee** to select the time zone.
- 7 Press **CURSOR $>$** to display the **Daylight** or **Saving Time** option. Press **CURSOR \wedge or \vee** to select **YES** or **NO**.
- 8 Press **CURSOR $>$** to display the **Search for Time**, **Enter Channel** option. Use the **numeric** buttons on the remote control to enter the channel you want to seek the time.
- 9 When finished, press **MENU** on the remote control three times to exit the menu from the TV screen.

Follow these steps for Manual Selection

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR \wedge or \vee** to scroll though the onscreen menu until you see **Install** highlighted.
- 3 Press **CURSOR $>$** to display the Install menu features.
- 4 Press **CURSOR \wedge or \vee** to scroll through the Install features until you see **Auto Chron** highlighted.
- 5 Press **CURSOR $>$** to display the Auto Chron options - **Auto** and **Manual**.

With the **Auto Chron** options displayed and **Manual** highlighted, you can set the clock of the TV manually.

- 6 Use **CURSOR \vee** to enter the value for **Enter Time** option.
- 7 Use **CURSOR $>$** to set the time.
- 8 Press **CURSOR \wedge or \vee** select **AM** or **PM**.
- 9 When finished, press **MENU** three times to exit the menu from the TV screen.



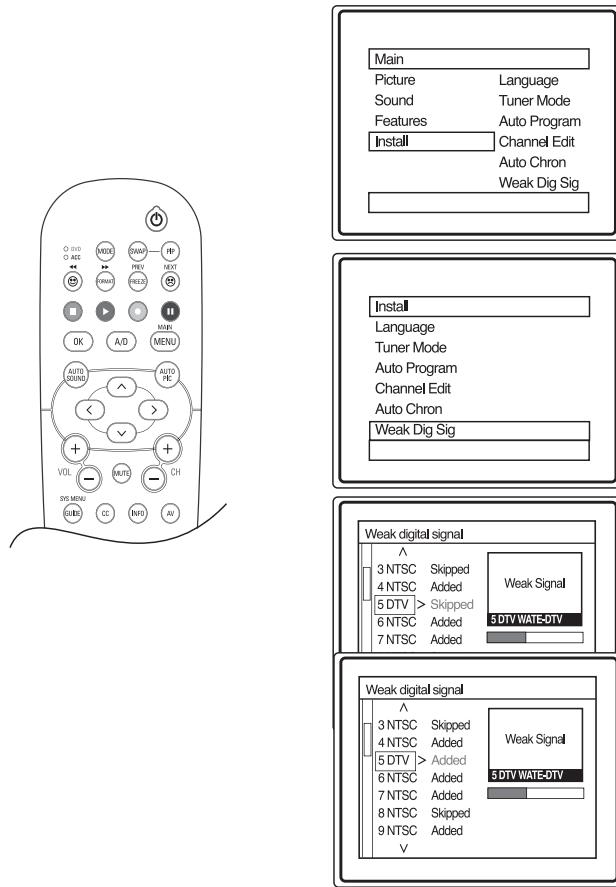
HELPFUL HINTS

To switch between Digital and Analog channels, use the **A/D** button on the Remote Control.

HOW TO ADD OR DELETE WEAK DIGITAL SIGNALS

Digital broadcasting is still new it is not uncommon for a broadcaster to only send out a digital signal for part of a day. The reception could also come and go. If you program your channels when the signal is not being sent or is weak it will not be saved in your channel setup. However, using the **WEAK DIG SIGNAL** feature here you can add those channels with weak or no signals to your channel list. Adding or deleting **WEAK DIG SIGNAL** can only be done in Digital Mode.

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR V** to scroll through the onscreen menu until you see **Install** highlighted.
- 3 Press **CURSOR >** to display the Install menu features.
- 4 Press **CURSOR V** to scroll through the install features until you see **Weak Dig Sig** highlighted.
- 5 Press **CURSOR >** to display the **Weak Digital Sig** options.
- 6 Use **CURSOR ^** or **V** to scroll through the menu and highlight the channel you wish to add or skip.
- 7 Use **CURSOR >** to toggle between **Added** or **Skipped**. If **Skipped** is selected the channels will be skipped when scrolling channels with **CH+** or **CH-**. If **Added** is selected the channels will not be skipped when scrolling channels with **CH+** or **CH-**.
- 8 When finished, press **MENU** three times to exit the menu from the TV screen.

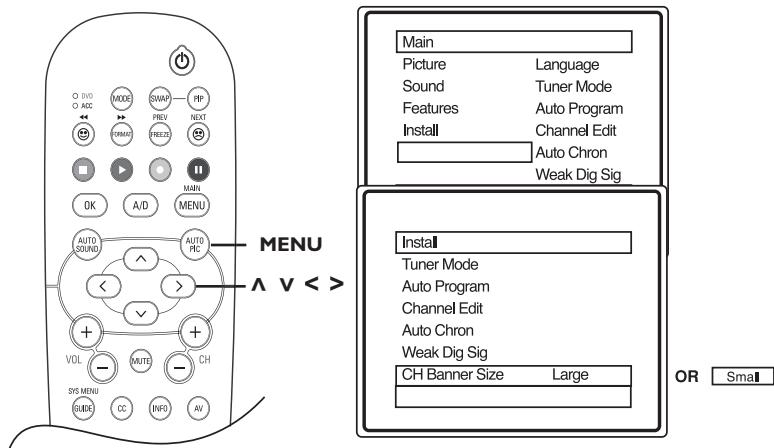


INFORMATION BANNER - CHANNEL BANNER SIZE

The **INFORMATION BANNER** displays the channel number, channel name, sound mode, CC and rating of the program you are watching. The quality and accuracy of information on the banner is transmitted from the broadcaster. You may see a difference in broadcast time if the broadcaster is from a different time zone. This feature is only available in Digital Mode.

Channel Banner Size feature lets you select a small or large information banner.

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR V** to scroll through the onscreen menu until you see **Install** highlighted.
- 3 Press **CURSOR >** to display the Install menu features.
- 4 Press **CURSOR V** to scroll through the Install features until you see **CH Banner Size** highlighted.
- 5 Press **CURSOR >** to select Small or Large.
- 6 Press **MENU** twice to exit the menu from the TV screen.



EMERGENCY ALERT

Emergency Alert lets you display or discard emergency alerts for Low or Medium priority. This feature is only available in Digital mode.

1 Press **MENU** on the remote control to display the onscreen menu.

2 Press **CURSOR** **V** to scroll through the onscreen menu until you see **Install** highlighted.

3 Press **CURSOR** **>** to display the install menu features.

4 Press **CURSOR** **V** to scroll through the **Install** features until you see **Emerg Alert** highlighted.

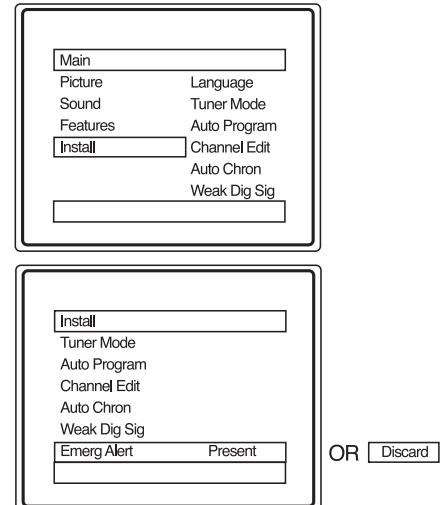
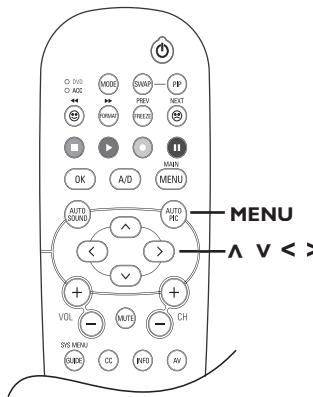
5 Press **CURSOR** **>** to display the Emergency Alert options.

6 Use **CURSOR** **^** or **V** to scroll through the menu and highlight the **Low** or **Medium** priority alerts.

7 Now use **CURSOR** **>** to toggle between **Present** or **Discard**. If **Present** is selected, the TV will display the alert of that priority. If **Discard** is selected, the TV will not display the alert of that priority.

8 When finished, press **MENU** three times to exit the menu from the TV screen.

* **Emergency Alert may not be visible if no broadcast is received.**



FACTORY CHANNEL RESET

Factory Channel Reset feature lets you erase the contents of the master, user and favorite channel lists. This restores the TV to the initial state before the first Auto Program operation. This feature is only available in Digital Mode. For instructions on how to Auto Install the TV again, refer to page 9.

1 Press **MENU** on the remote control to display the onscreen menu.

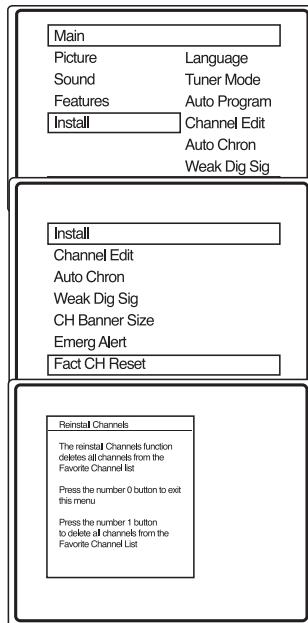
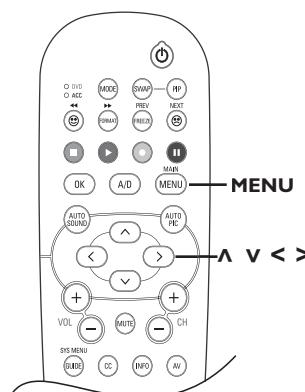
2 Press **CURSOR** **V** to scroll through the onscreen menu until you see **Install** highlighted.

3 Press **CURSOR** **>** to display the install menu features.

4 Press **CURSOR** **V** to scroll through the Install features until you see **Fact CH Reset** highlighted.

5 Press **CURSOR** **>** to follow the instructions in the menu to reset the TV.

6 When finished, press **MENU** button on the remote control three times to exit



PICTURE MENU CONTROLS

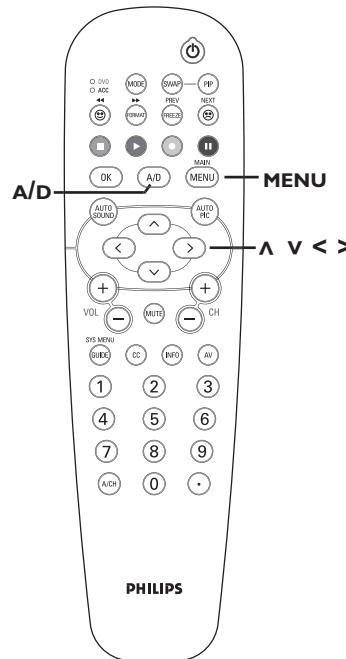
To adjust your TV picture controls, select a channel and use the Picture Menu Controls listed below. Your selection is stored as **Personal**.

- 1 Press **MENU** button on the remote control to display the onscreen menu.
- 2 Press **CURSOR** **^** or **∨** to until the **Picture** menu feature is highlighted.
- 3 Press **CURSOR** **>** or **<** to adjust
 - Brightness Control** - until the darkest parts of the picture are as bright as you want.
 - Color Control** - to add or remove color.
 - Picture Control** - until the lightest parts of the picture show good detail.
 - Sharpness Control** - to improve sharpness in the picture.
 - Tint Control** - adjust natural skin tones in the picture quality.

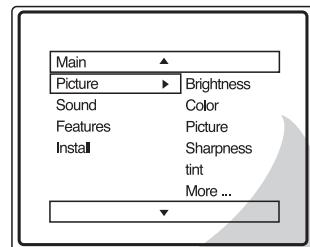
Note : Tint is not available in Digital Mode

Color Temp Control - to select Normal, Cool, or Warm picture preferences. For Normal, whites will maintain their whiteness; Cool will make the whites bluish; and Warm will make the whites reddish.

Contrast + Control - when set to **On**, the Contrast + control helps to "sharpen" the picture quality. The black portions of the picture become richer in darkness and the whites become brighter.



Digital and Analog Mode



Brightness

Color

Picture

Sharpness

Tint

Color Temp. Normal
Warm
or
Cool

Contrast + On
or Off

SOUND MENU CONTROLS

To adjust your TV sound, use the Sound Menu Controls listed below. Your selection is stored as **Personal**.

Follow these steps for Digital Mode

1 **Treble:** Press **CURSOR** > or < to adjust the treble levels. The control will enhance the high frequency sounds.

2 **Bass:** Press **CURSOR** > or < to adjust the bass levels. The control will enhance the low frequency sounds.

3 **Balance:** Press **CURSOR** > or < to adjust the level of sound coming from the left and right speakers.

4 **AVL: (Auto Volume Leveler)** Press **CURSOR** > or < to turn the control **On** or **Off**. When turned **On**, AVL will level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes.

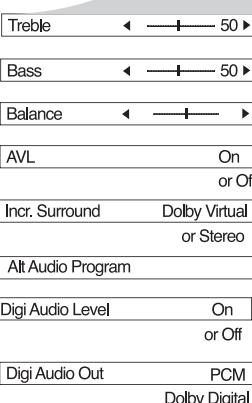
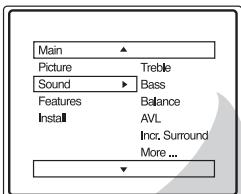
5 **Incr. Surround:** Press **CURSOR** > or < to select between **Dolby Virtual** or **Stereo** settings.

6 **Alt Audio Program:** Press **CURSOR** > or < to select the appropriate language.

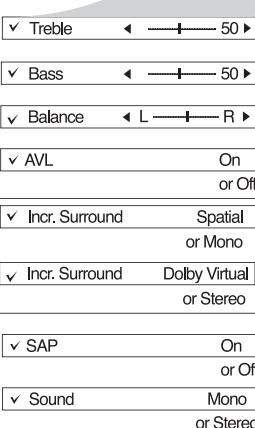
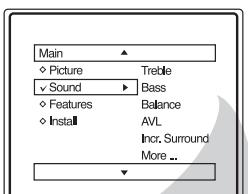
7 **Digi Audio Level:** Press **CURSOR** > or < to turn the control **On** or **Off**. When turned **Off**, Digi Audio Level will level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes.

8 **Digi Audio Out:** Press **CURSOR** > or < to select the audio system which the TV is connected to.

Digital Mode



Analog Mode



Follow these steps for Analog Mode

1 **Treble:** Press **CURSOR** > or < to adjust the treble levels. The control will enhance the high frequency sounds.

2 **Bass:** Press **CURSOR** > or < to adjust the bass levels. The control will enhance the low frequency sounds.

3 **Balance:** Press **CURSOR** > or < to adjust the level of sound coming from the left and right speakers.

4 **AVL: (Auto Volume Leveler)** Press **CURSOR** > or < to turn the control **On** or **Off**. When turned **On**, AVL will level out the sound being heard when sudden changes in volume occur during commercial breaks or channel changes.

5 **Incr. Surround:** Press **CURSOR** > or < to select between **Dolby Virtual** or **Stereo** settings, or select **Spatial** or **Mono**.

6 **SAP:** Press **CURSOR** > or < to toggle this control to **On** or **Off**. Secondary Audio Programming (SAP) is sent as a third audio channel, a SAP signal can be heard apart from the current TV program sound.

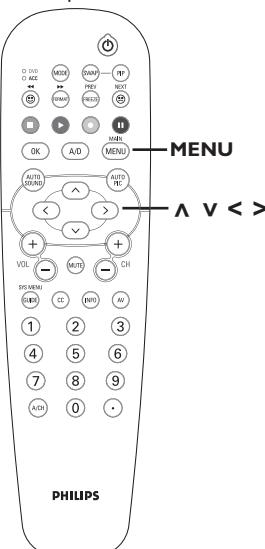
Note: If SAP is not present on a selected show, No SAP will be displayed on the TV screen.

7 **Sound:** Press **CURSOR** > or < to select between **Stereo** or **Mono** settings.

Note: If Stereo is not present on a selected show and the TV is in Stereo mode, the sound coming from the TV will remain in the monoaural (Mono) mode.

HELPFUL HINTS

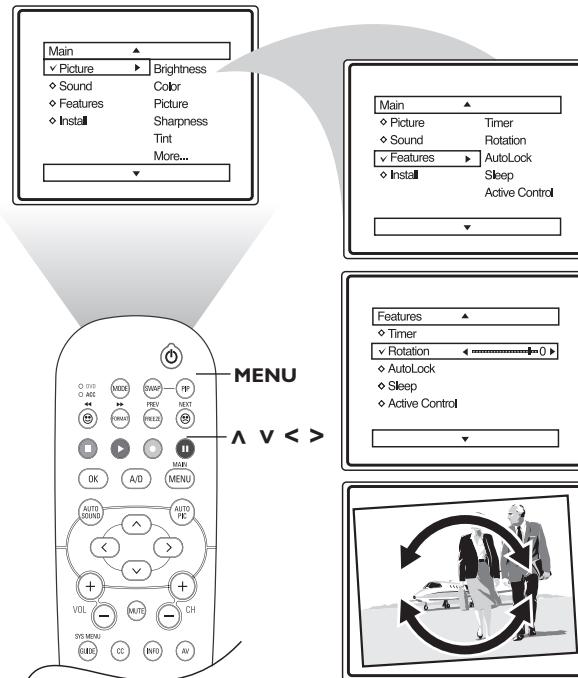
To switch between Digital and Analog channels, use the A/D button on the Remote Control.



HOW TO CORRECT A TILTED IMAGE

Sometimes the video transmitted to the TV screen might appear slightly tilted. The Rotation control lets you correct the problem by adjusting the screen in a clockwise or counterclockwise direction.

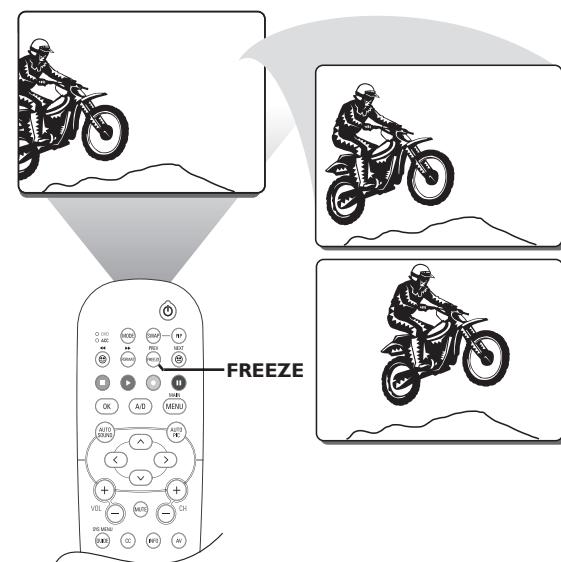
- 1 Press **MENU** button on the remote control to display the onscreen menu.
- 2 Press **CURSOR** **^** or **∨** until you see **Features** highlighted.
- 3 Press **CURSOR** **>** to display feature menu.
- 4 Press **CURSOR** **^** or **∨** until you see **Rotation** control highlighted.
- 5 Press **CURSOR** **>** or **<** to rotate the picture on the screen clockwise or counter clockwise.
Note : The amount of rotation will be minimal.
- 6 Press **MENU** twice to exit the menu from the TV screen.



HOW TO USE THE FREEZE CONTROLS

Have you ever wished you could freeze the picture on the TV broadcast to write down a special telephone number or to capture a needed address ? Your TV has this feature available with the press of just one button on the remote control.

- 1 While viewing a program on the TV screen, simply press the **FREEZE** button on the remote control to freeze the picture at any given moment.
- 2 Press the **FREEZE** button on the remote control again to resume normal viewing.



HELPFUL HINT

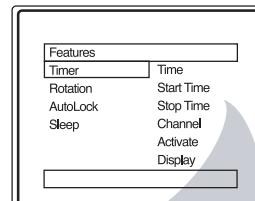
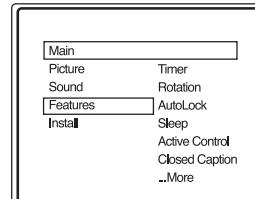
When the **FREEZE** control is turned **Off**, the normal signal programming will be shown at its present time. The signals that were being shown while the picture was frozen will not be viewable.

HOW TO USE THE TIMER MENU CONTROLS

Your television comes with an onscreen clock. The TV can also be set to turn on or off at a specific time and tune to a specific channel when it powers itself on.

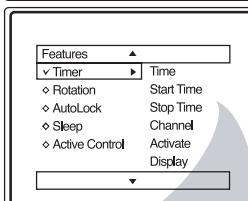
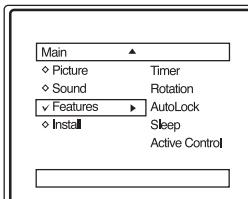
- 1 Press the **MENU** button on the remote control to display the onscreen menu.
- 2 Press the **CURSOR** \wedge or \vee button until **Features** is highlighted.
- 3 Press the **CURSOR** $>$ button to display the Features menu.
- 4 Press the **CURSOR** $>$ button to display the Timer menu.
- 5 Press the **CURSOR** $>$ button to access the Timer menu.
- 6 Press the **CURSOR** \wedge or \vee , until one of the Timer controls (Time, Start Time, Stop Time, Channel, Activate, or Display) is highlighted.
- 7 Press the **CURSOR** $>$ button to display the menu for the selected item
Make adjustments to the selected items by following the steps below.
 - Time:** Enter the current time using the **NUMERIC** buttons. Use the **CURSOR** $>$ or $<$ to toggle the **AM** and **PM** setting.
 - Start Time:** Use the **NUMERIC** buttons to enter the time you want the TV to turn itself On. Use the **CURSOR** $>$ or $<$ to toggle the **AM** and **PM** setting.
 - Stop Time:** Use the **NUMERIC** buttons to enter the time you want the TV to turn itself Off. Use the **CURSOR** $>$ or $<$ to toggle the **AM** and **PM** setting.
 - Channel:** In **Digital Mode**, use **CH +** or **CH -** to select **DTV** which is the last viewed digital channel. In **Analog Mode**, use the **NUMERIC** buttons or the **CH +** or **CH -** buttons to enter the startup channel.
 - Activate:** Set the timer to turn itself **Off**, **Once** or **Daily**. Press the **CURSOR** $>$ or $<$ to select **Once**, **Daily**, or **Off**.
 - Display:** Press the **CURSOR** $>$ or $<$ to toggle between **On** or **Off**. If **On** is selected, the time will be displayed all the time when the TV is on. When **Off** is selected, the time will only appear when the **INFO** button is pressed.
 - NOTE :** *Display is not available in Digital Mode.*
 - 8 Press the **MENU** button on the remote control three times to remove the onscreen menu from the TV screen.

Digital Mode

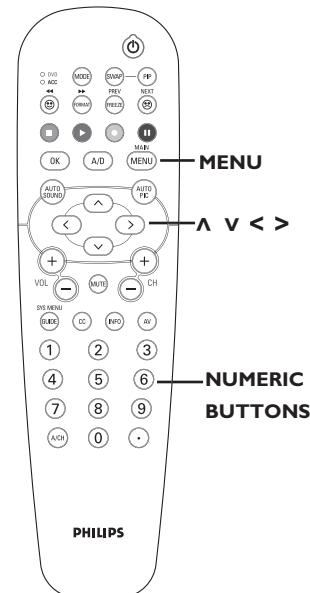


Time	09:00 AM or PM
Start Time	10:00 AM or PM
Stop Time	11:30 AM or PM
Channel	DTV
Activate	Off or Daily or Once
Display	Off or On

Analog Mode



Time	09:00 AM or PM
Start Time	10:00 AM
Stop Time	11:30 AM
Channel	2
Activate	Off or Daily or Once
Display	Off or On



HELPFUL HINTS

In Digital Mode : Before you turn off the TV you have to switch to the **desired digital channel** because the TV will wake up in the last viewed digital channel.

In Analog Mode : You can specify which channel to wake up to.

HOW TO USE THE PIP (PICTURE-IN-PICTURE) CONTROLS

Picture-In-Picture (PIP) is a feature that allows the display of two pictures on the TV screen at the same time. (One main screen picture and one small inset picture or PIP picture.) With only a cable or antenna signal connected, the PIP feature can display one channel (an analog channel) on the main screen while showing another channel (a digital channel) in the PIP window.

The Double Window PIP feature divides the screen in half displaying the main picture and PIP window into equal size windows (left side showing the main picture and right side showing the PIP picture).

The SWAP PIP feature interchanges the picture on the main screen and the PIP window and vice-versa.

The CH+ or CH- selects all the available channels on the PIP window.

NOTE: Pressing the numeric buttons will not change the channels in the PIP window. They are for use with the main screen picture only.

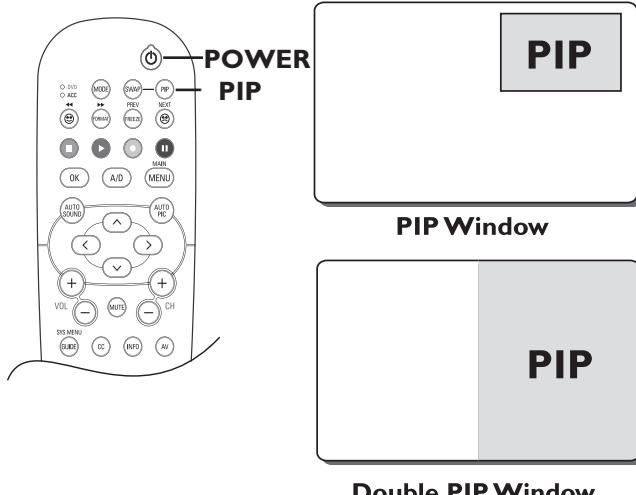
The signal from an external accessory device can also be used to generate a PIP picture. VCRs, DVD players, or similar devices can be used to create the signal. The PIP window can display signals coming from the RF inputs, the AV1, AV2, CVI, S-Video or the Front Jacks.

For basic connection instructions, please refer to the Audio/Video Input Jacks section in the Connection Guide.

ON/OFF PIP:

- 1** Turn the TV and the external accessory device (if using one) ON. Choose a digital program (from TV mode). Choose an analog program (from TV, AV1, AV2, CV1, Front). Press the AV button to select which external sources you want (eg. AV1, AV2, etc.).
- 2** Press the **PIP** button on the remote control to display the **PIP** window on the screen's top right hand corner.
- 3** Press the **PIP** button on the remote control again to display the Double Window **PIP**.
- 4** Press the **PIP** button on the remote control a third time to switch off the **PIP** feature.

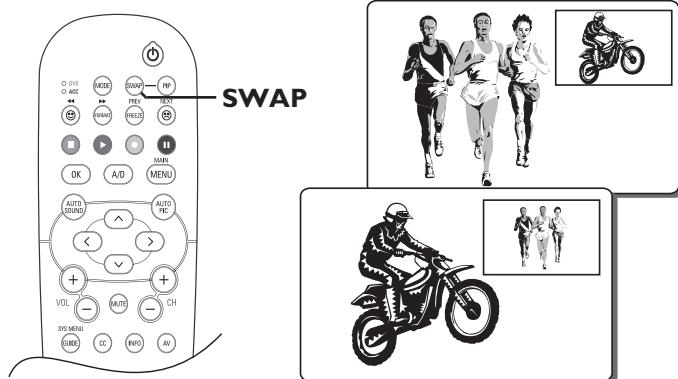
ON/OFF PIP :



Swap PIP:

- 1** Press **SWAP** to interchange the picture on the main screen with that of the PIP window.
- 2** Press **SWAP** again to return the pictures to their original positions.

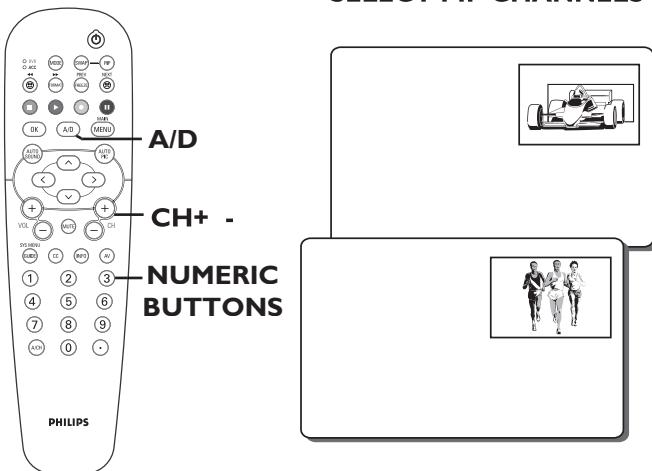
SWAP PIP



HOW TO USE THE PIP (PICTURE-IN-PICTURE) CONTROLS

Select PIP Channels:

- 1 Press **CH+** or **CH-** on the remote control to select all available channels in the PIP window.
- 2 Press the **Numeric** buttons on the remote control to select available channels on the main screen.
- 3 Press **A/D** button to switch between Digital and Analog channels.



Note : PIP feature can display one channel (an analog channel) on the main screen while showing another channel (a digital channel) in the PIP window or vice versa. It cannot show both analog or digital pictures on both main and PIP window at the same time.

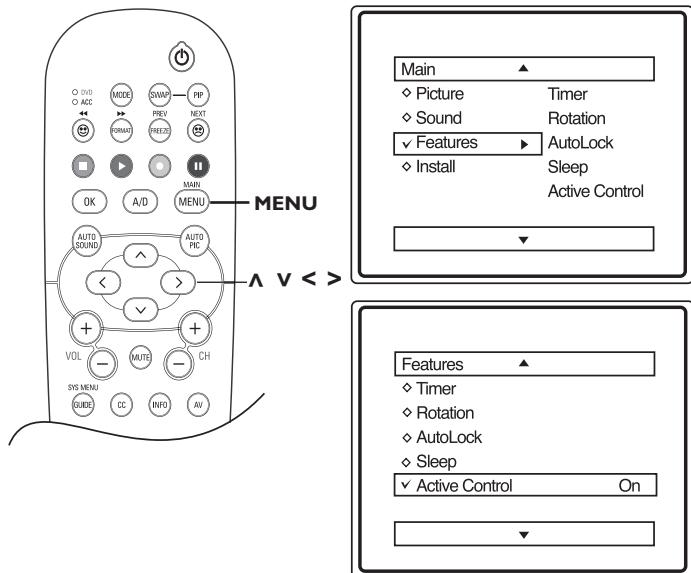
Refer to the following **ATSC PIP Table** for all possible combination.

Main Window	PIP Window
▪ Digital (Cable / Off Air)	▪ Analog ▪ CVI (Component Video) ▪ Composite Video ▪ S-Video
▪ Analog ▪ CVI (Component Video) ▪ AV (Composit Video) ▪ S-Video	▪ Digital (Cable / Off Air)
▪ HDMI ▪ HD CVI	▪ Cannot activate PIP

ACTIVE CONTROL OPTIONS

Active control options adjusts the picture brightness according to the condition of the lighting in the room.

- 1 Press **MENU** button on the remote control to display the onscreen menu.
- 2 Press **CURSOR** \wedge or \vee to scroll through the onscreen menu until you see **Features** highlighted.
- 3 Press **CURSOR** $>$ to display the **Features** menu.
- 4 Press **CURSOR** \wedge or \vee repeatedly until you see **Active Control** highlighted.
- 5 Press **CURSOR** $>$ or $<$ to toggle the Active Control to **On** and **Off**.
- 6 When finished, press the **MENU** button on the remote control twice to exit the menu from the TV screen.



Note : When the lighting in the room is dim, the brightness of the picture will be decreased. When the lighting in the room is bright, the brightness of the picture will be increased.

UNDERSTANDING AUTOLOCK CONTROLS

AutoLock is a feature that lets the TV receive and process data sent by broadcasters or other program providers with program content Advisory. When programmed by the viewer, a TV with AutoLock can respond to the content advisory and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This feature is useful for adults to prevent certain types of programs from being viewed by children.

AutoLock offers various **BLOCKING** controls to choose: from:

Access Code - An Access Code must be set to prevent children from unblocking questionable or censored programming set by their parents.

Channel Block - After an access code has been programmed, you cannot block individual channels including the A/V inputs.

Clear All - Lets you clear all channels being blocked from your viewing set with the Channel Block Control.

Block All - Lets you block ALL channels except A/V inputs.

No Rating / Unrated - ALL programing with no content advisory data can be blocked if **NO RATING / Unrated** is set to ON.

Movie Ratings - Certain blocking options exist which will block programming based on ratings patterned by the Motion Pictures Association of America (MPAA).

TV Ratings - Like the Movie Ratings, programs can be blocked from viewing using standard TV ratings set by TV broadcasters.

MOVIE RATINGS

G: General Audience - All ages admitted. Suitable for all ages.

PG: Parental Guidance Suggested - Contains material unsuitable for younger children.

PG-13: Parents Strongly Cautioned - Contains material unsuitable for children under the age of 13.

R: Restricted - Suitable for adults above 17 years of age only.

NC-17: No one under the age of 17 will be admitted.

X: Adults Only - Contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

TV RATINGS

TV-Y : Designed for a very young audience, including children ages 2-6

TV-Y7: Appropriate for children age 7 and above who have acquired the development skills needed to distinguish between make-believe and reality.

acquired the development skills needed to distinguish between make-believe and reality.

TV-G : Suitable for most audiences. Contains little or no violence, no strong language, and little or no sexual dialogue or situations.

TV-PG: Contains material unsuitable for younger children. Could contain Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

TV-14: Contains some material unsuitable for children under 14 years of age. Contains one or more of the following: intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D).

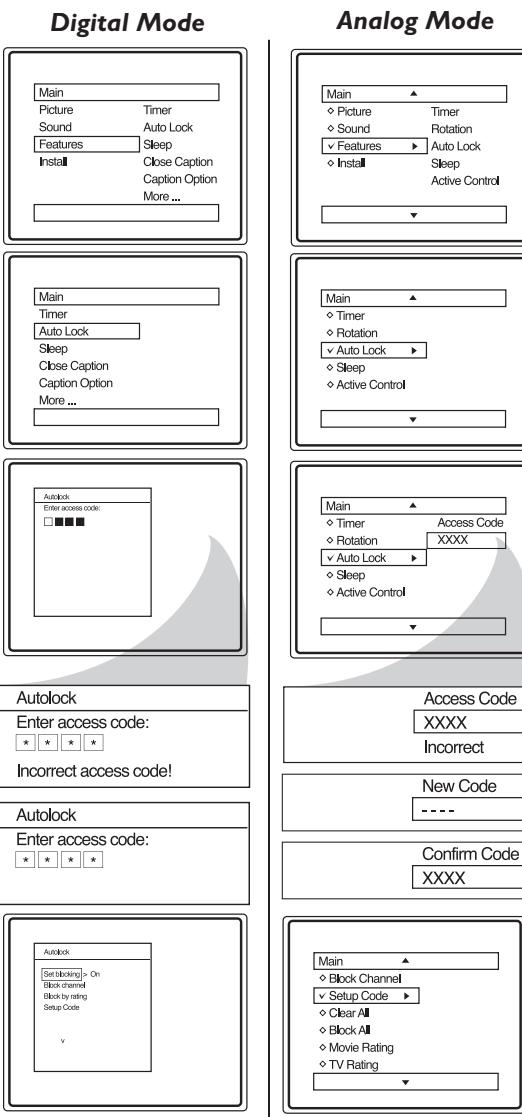
TV-MA - Viewed by adults and therefore may be unsuitable for children under 17. Contains one or more of the following: graphic violence (V), explicit sexual situations (S), or crude indecent language (L).

SETTING UP ACCESS CODE TO BLOCK CHANNELS

Over the next few pages you'll learn how to block channels and get a better understanding of the ratings used for certain programming.

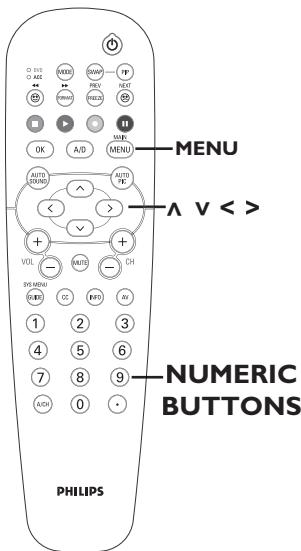
Follow these steps for Digital Mode

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR** \wedge or \vee until you see **Features** highlighted.
- 3 Press **CURSOR** $>$ to display the Features menu options.
- 4 Press **CURSOR** \wedge or \vee until you see **Auto Lock** highlighted.
- 5 Press **CURSOR** $>$. The screen will display: Access Code - - -.
- 6 Using the **NUMERIC** buttons, enter 0, 7, 1, 1. "XXXX" appears on the Access Code screen as you press the numeric buttons. Incorrect Code will appear on the screen and you will need to enter 0, 7, 1, 1 again.



Follow these steps for Analog Mode

- 1 Press **MENU** on the remote to display the onscreen menu.
- 2 Press **CURSOR** \wedge or \vee until you see **Features** highlighted.
- 3 Press **CURSOR** $>$ to display the Features menu options.
- 4 Press **CURSOR** \wedge or \vee or until you see **Auto Lock** highlighted.
- 5 Press **CURSOR** $>$. The screen will display: Access Code - - -.
- 6 Using the **NUMERIC** buttons, enter **0711**. "XXXX" appears on the Access Code screen as you press the **NUMERIC** buttons. Incorrect Code will appear on the screen and you will need to enter **0711** again.
- 7 The screen will prompt you to enter a New Code. Enter a new 4 digit code using the **NUMERIC** buttons. The screen will then prompt you to **CONFIRM** the code you just entered. Enter your new code again. "XXXX" will appear when you enter your new code. AutoLock menu options will be displayed if the new code tallies with the one you have entered earlier.



HOW TO BLOCK CHANNELS

After your personal access code has been set (see previous page), you are now ready to select the channels you want to block.

Once you have entered your access code and the AutoLock feature is displayed on the screen.

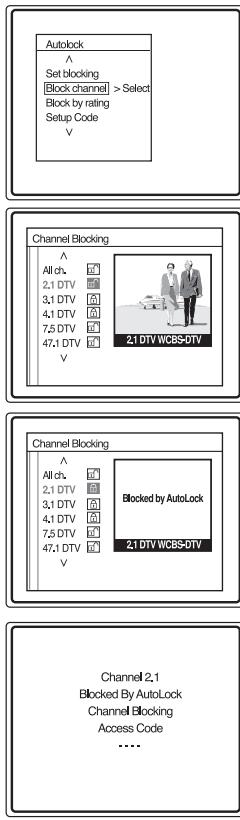
Follow these steps for Digital Mode

1 After Setting your personal access code (see previous page), press **CURSOR** **^** or **V** until you see **Block Channel** highlighted.

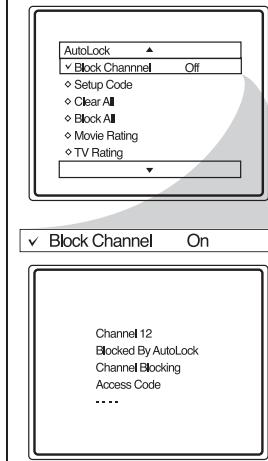
2 Press **CURSOR** **>** to enter the Channel Blocking menu. Press **OK** to lock or unlock the channel.

3 When finished, press **MENU** on the remote control three times to exit the menu from the TV screen.

Digital Mode



Analog Mode

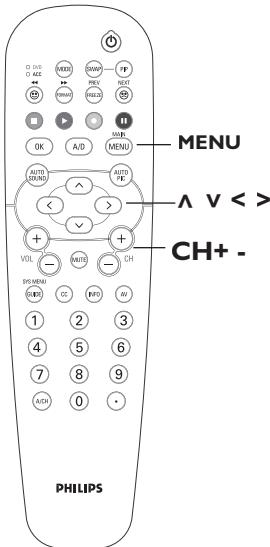


Follow these steps for Analog Mode

1 After Setting your personal access code (see previous page), press **CURSOR** **^** or **V** until you see **Block Channel** highlighted.

2 Press **CURSOR** **^** or **V** to select the channels you wish to block. Press **CH +** or **CH -** to select other channels you wish to block.

3 When finished, press **MENU** on the remote control three times to exit the menu from the TV screen.



HELPFUL HINTS

NOTE: If you forget your code, the 0711 code is the default and can be used to enter and create a new access code. Enter the above number twice.

BLOCK / CLEAR ALL CHANNELS AT THE SAME TIME

After blocking specific channels there may come a time when you want to block or clear all the channels at the same time.

Once you've entered your access code and the AutoLock features are displayed on the screen.

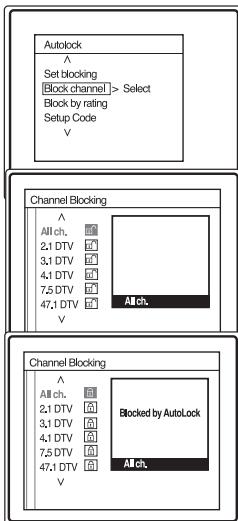
Follow these steps for Digital Mode

1 Press **CURSOR** **V** to select Block channel. Press the **CURSOR** **>** button to enter the Channel blocking menu.

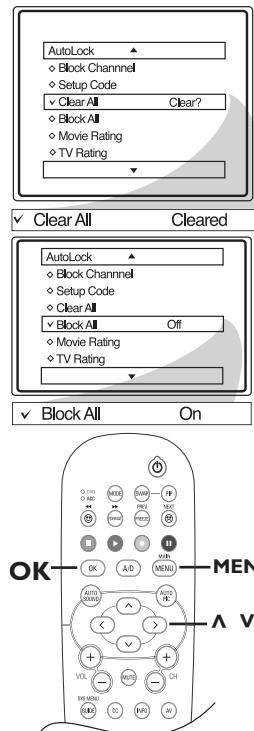
2 If All ch. is locked, press **OK** to clear all blocked channels. All channels will be viewable. If All ch. is unlocked, press the **OK** button to lock all channels. When this is done, ALL available channels will be blocked from viewing.

3 When finished, press **MENU** on the remote control four times to exit the menu from the TV screen.

Digital Mode



Analog Mode



Follow these steps for Analog mode

1 Press **CURSOR** **A** or **V** to select either **Clear All** or **Block All**.

2 If **Clear All** is selected, press **CURSOR** **>** to clear all blocked channels. All channels will be viewable.

If **Block All** is selected, press **CURSOR** **>** to turn the control **On** or **Off**. When **On** is selected, ALL available channels will be blocked from viewing.

3 When finished, press **MENU** on the remote control four times to exit the menu from the TV screen.

MOVIE RATINGS

The AutoLock feature can block programs based on the Movie Industry ratings.

Once you've entered your access code and the AutoLock features are displayed on the screen:

Follow these steps for Digital Mode

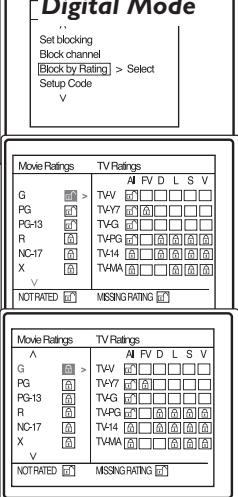
1 Press **CURSOR** **V** until you see **Block by Rating** highlighted.

2 Press the **CURSOR** **>** to display the Movie Rating options (G, PG, PG-13, R, NC17, or X).

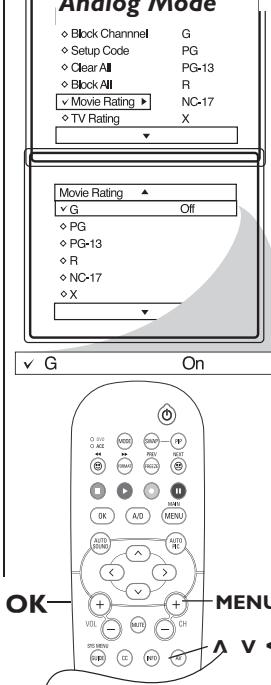
3 Press **CURSOR** **A** or **V** or to highlight any of the Movie Rating options. When highlighted, all these options can be turned **On** (which will allow blocking) or **Off** (which will allow viewing).

4 Press **OK** to turn the rating option **On** or **Off**.

Digital Mode



Analog Mode



Follow these steps for Analog mode

1 Press **CURSOR** **V** until you see **Movie Rating** highlighted.

2 Press **CURSOR** **>** to display the Movie Rating options (G, PG, PG-13, R, NC17, or X).

3 Press **CURSOR** **A** or **V** to highlight any of the Movie Rating options. When highlighted, all these options can be turned **On** (which will allow blocking) or **Off** (which will allow viewing).

4 Use **CURSOR** **>** to turn the rating option **On** or **Off**.

TV RATINGS

The AutoLock feature can block programming based on the TV Industry ratings.

Once you've entered your access code and the AutoLock features are displayed on the screen.

Follow these steps for Digital Mode

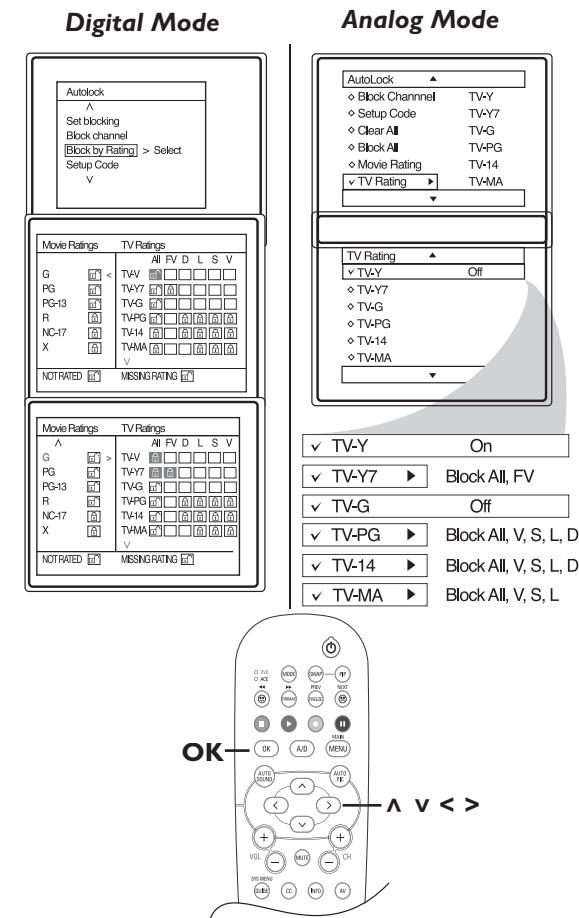
1 Press **CURSOR** **V** until you see **Block by Rating** highlighted.

2 Press the **CURSOR** **>** to display the TV Rating options (TV-Y, TV-Y7, TV-G, TV-PG, TV-14 or TV-MA).

3 Press **CURSOR** **^** or **V** to highlight any of the TV Rating options. When highlighted, all these options can be turned **On** (which will allow blocking) or **Off** (which will allow viewing).

4 Press **OK** to turn the rating option **On** or **Off**.

5 If the TV-Y7, TV-PG, TV-14 or TV-MA sub-menu is accessed, press **CURSOR** **^** or **V** to select one of the options (Block All, V, S, L, D or FV).



Follow these steps for Analog mode

1 Press **CURSOR** **V** until you see **TV Rating** highlighted.

2 Press the **CURSOR** **>** to display the TV Rating options (TV-Y, TV-Y7, TV-G, TV-PG, TV-14 or TV-MA).

3 Press **CURSOR** **^** or **V** to highlight any of the TV Rating options. When highlighted, all these options can be turned **On** (which will allow blocking) or **Off** (which will allow viewing).

4 Press **CURSOR** **>** to turn the TV-Y or TV-G rating **On** or **Off**. Or, press the **CURSOR** **>** to enter the sub-menus.

5 If the TV-Y7, TV-PG, TV-14 or TV-MA sub-menu is accessed, press **CURSOR** **^** or **V** to select one of the options (Block All, V, S, L, D or FV).

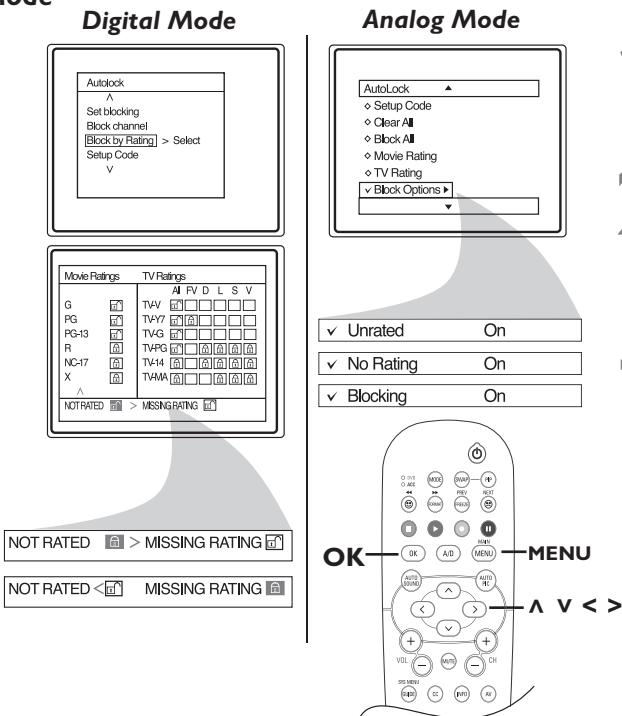
BLOCKING OPTIONS

AutoLock offers the viewer other blocking features as well. With these Blocking Options, blocking can be turned ON or OFF.

When you have entered your access code and the AutoLock feature is displayed on the screen.

Follow these steps for Digital Mode

- 1 Press **CURSOR** **▼** until you see **Block by Rating** highlighted.
- 2 Press **CURSOR** **▼** until you see **Not Rated** highlighted or press **CURSOR** **>** until you see **Missing Rating** highlighted.
- 3 Press **OK** to turn the desired feature **On** or **Off**.



Follow these steps for Analog mode

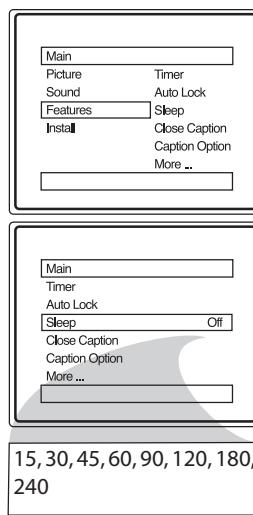
- 1 Press **CURSOR** **▼** until you see **Block Options** highlighted.
- 2 Press **CURSOR** **>** to display the **Blocking Options** (Blocking, Unrated, or No Rating) menu.
- 3 Press **CURSOR** **▲** or **▼** until you see your desired feature highlighted. When highlighted, each feature can be turned **On** or **Off** using **CURSOR** **>** or **<** on the remote control.

SLEEPS_TIMER

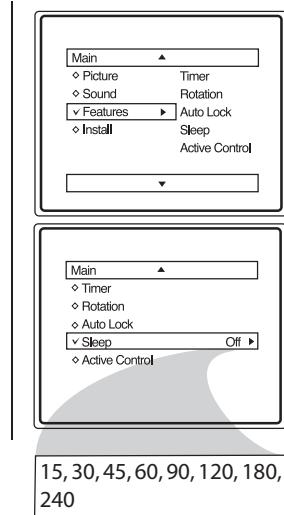
The SleepTimer feature allows you to set a timer to automatically turn the TV off after a period of time you choose - 15, 30, 45, 60, 90, 120, 180 or 240 minutes.

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR** **▼** until you see **Features** highlighted.
- 3 Press **CURSOR** **>** to enter **Features** menu options.
- 4 Press **CURSOR** **▼** until you see **Sleep** highlighted.
- 5 Press **CURSOR** **>** repeatedly to select the amount of time (15, 30, 45, 60, 90, 120, 180 or 240 minutes) before the TV automatically switches Off.

Digital Mode



Analog Mode



NOTE: An onscreen countdown will appear during the last minute before the TV turns Off. If any button is pressed during the last minute of the countdown, the Sleep Timer setting will be cancelled.

HOW TO USE THE FORMAT CONTROL

Many times while watching movies from a DVD player the image is shown in "letter box" format. This is the format that is shown in movie theaters. When shown on a TV screen, the image will have areas of black bars on the top and bottom of the screen.

- 1 Press **FORMAT** on the remote control to select one of the screen format options.

4:3 - Standard format for the TV.

4:3 Expand - Enlarges the picture to fill out the entire screen area, eliminating the "letter box" effect.

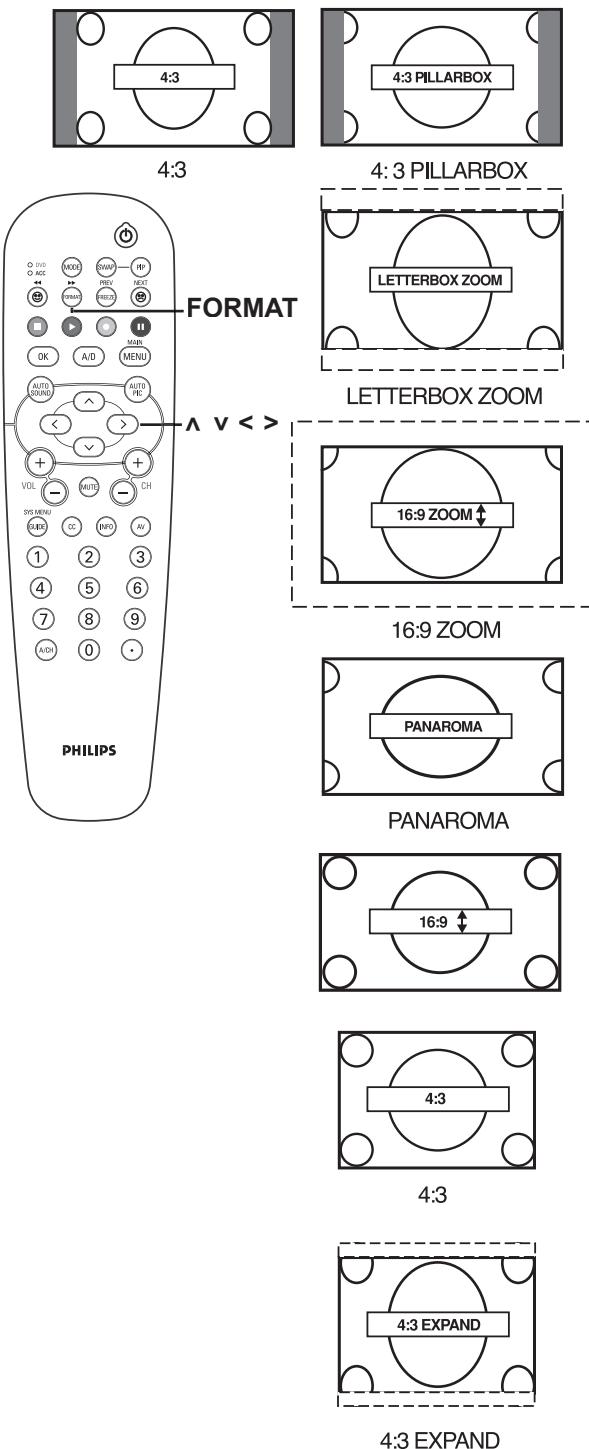
16:9 - until the lightest parts of the picture show good detail.

16:9 Zoom - to improve sharpness in the picture.

While in the **16:9 Zoom** and **16:9 format** options you can press **CURSOR** \wedge or \vee to "nudge" the picture up or down.

Note : 4:3 and 4:3 Expand format options are only available for model 32PT9100D.

16:9 and 16:9 Zoom format options are only available for widescreen models **26PW9100D**, **30PW9100D** and **30PW9110D**.

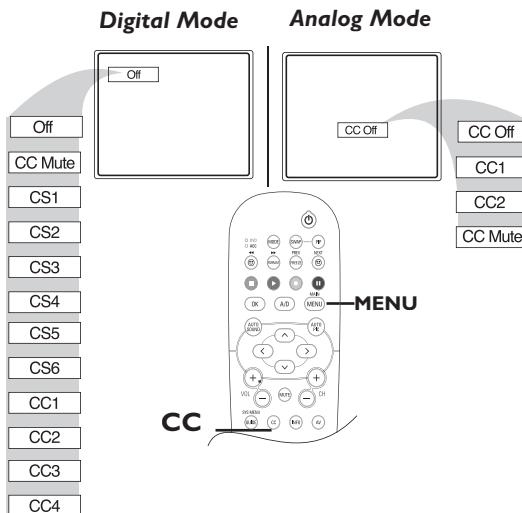


CLOSE CAPTIONING

Closed Captioning (CC) lets you read the voice content of TV programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen “text boxes” to show dialogue and conversations while the TV program is in progress.

Follow these steps for Digital Mode

- 1 Press **CC** to display the current Closed Caption setting.
- 2 Press **CC** repeatedly to choose from the 12 Closed Caption options (**Off**, **CC Mute**, **CS1** to **6** and **CC1** to **CC4**).
- 3 When finished, press **MENU** on the remote control to exit the menu from the TV screen.



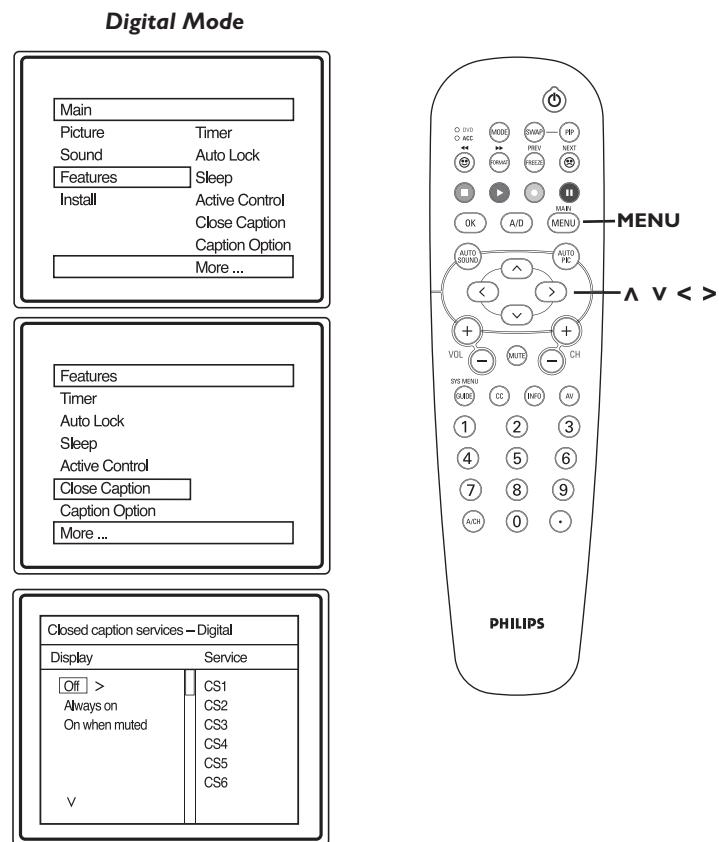
Follow these steps for Analog mode

- 1 Press **CC** to display the current Closed Caption setting.
- 2 Press **CC** repeatedly to choose from the four Closed Caption options (**CC Off**, **CC1**, **CC2**, **CC Mute**).
- 3 When finished, press **MENU** on the remote control to exit the menu from the TV screen.

CLOSE CAPTIONING SERVICES - DIGITAL

When in digital mode, you can assign display options to your closed captioning options.

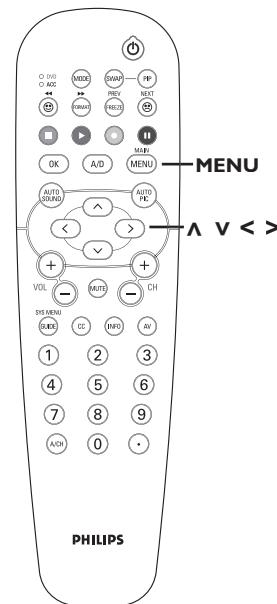
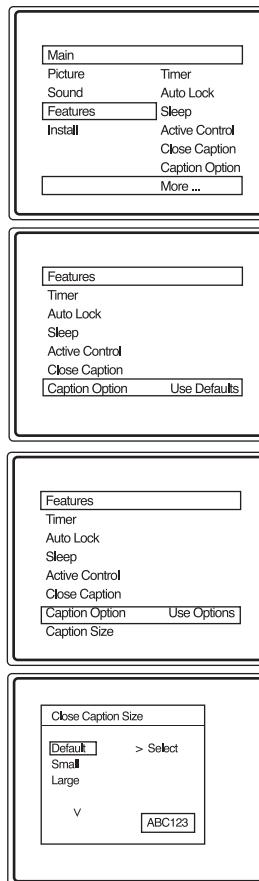
- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR** **V** until you see **Features** highlighted.
- 3 Press **CURSOR** **>** to display the **Features** menu options.
- 4 Press **CURSOR** **V** until you see **Close Caption** highlighted. Press **CURSOR** **>** to enter Closed caption services-Digital menu options.
- 5 Press **CURSOR** **V** to highlight the display options that you want – **Off**, **Always On** or **On when muted**.
- 6 Press **CURSOR** **>** to highlight the service you want to assign the display option that you selected in step 5. Repeat steps 5-6 to assign display options to more service.
- 7 When finished, press **MENU** on the remote control to exit the menu from the TV screen.



CAPTION OPTION AND SIZE - DIGITAL

Caption Option lets you select the default option or options that you have assigned to your Close captioning service

- 1 Press **MENU** on the remote control to display the onscreen menu.
- 2 Press **CURSOR** **▼** until you see **Features** highlighted.
- 3 Press **CURSOR** **>** to select **Use Options** or **Use Defaults**.
- 4 Press **CURSOR** **▼** to highlight **Caption Size** followed by **CURSOR** **>** to enter Caption Size options menu.
- 5 Press **CURSOR** **▼** to highlight **Close Caption display size options – Default, Small or Large**. The text size will be displayed at the right hand corner of the menu to help you make your choice.
- 6 When finished, press **MENU** on the remote control three times to exit the menu from the TV screen.

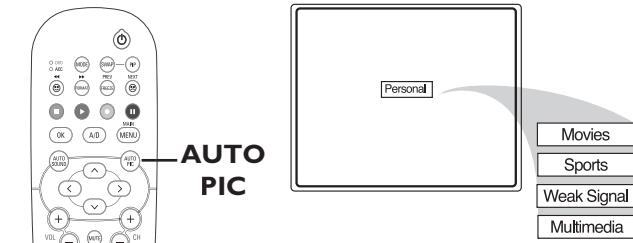


AUTO PICTURE

Whether you're watching a movie or a sporting event, your TV has automatic video control settings to match your current program source or content.

- 1 Press **AUTO PICTURE** on the remote control. The current Auto Picture setting will be displayed on the TV screen.
- 2 Press **AUTO PICTURE** repeatedly to select either **Personal**, **Movies**, **Sports**, **Weak Signal**, or **MULTIMEDIA** picture settings.

NOTE: The way you choose to set the Picture Menu Controls will become your Personal setting.

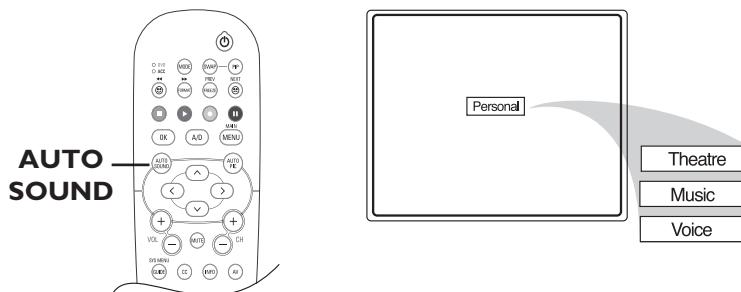


AUTO SOUND

The Auto Sound feature allows the listener to select between four different pre-set sound options.

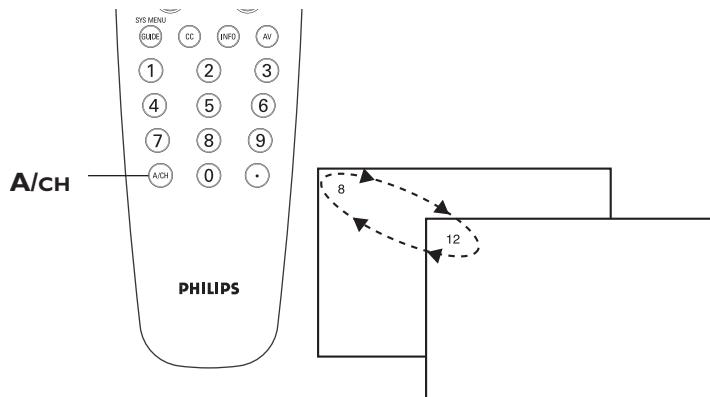
- 1 Press **AUTO SOUND** on the remote control. The current Auto Sound setting will be displayed on the TV screen.
- 2 Press **AUTO SOUND** repeatedly to select either **Personal**, **Theatre**, **Music**, or **Voice**.

NOTE: The way you choose to set the Sound Menu Controls will become your Personal setting.



ALTERNATE CHANNEL

- 1 Your remote control also has an **A/CH** (Alternate Channel) button. Pressing this button will toggle between the Current and previously selected channel.



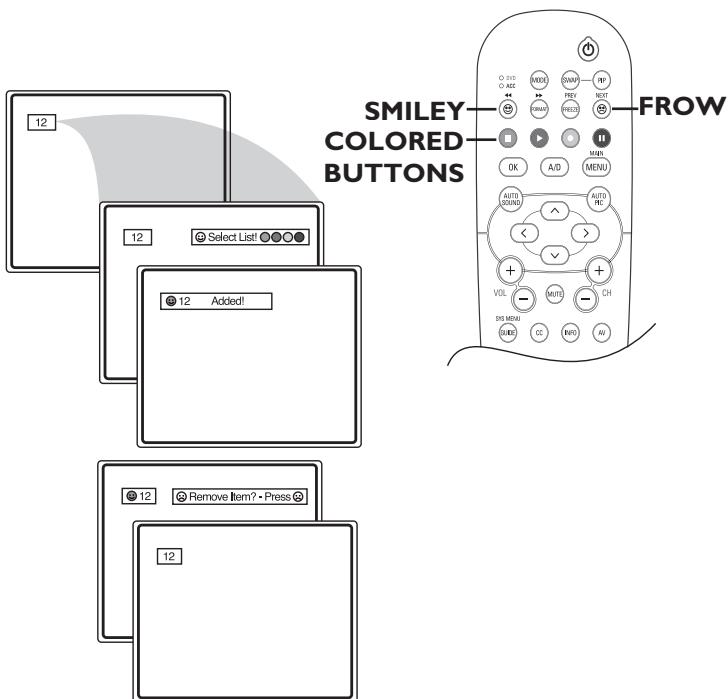
QUADRASURF

The QuadraSurf control lets you set up four different personal channel Surf lists using the colored buttons (on the remote control), each can hold up to ten channels in its quick viewing list.

- 1 Press **CH +** or **-** (or the numeric buttons) to select a channel to add to one of the SURF lists.
- 2 Press **SMILEY** ☺ to ADD the channel to one of the SURF lists.
- 3 Press the corresponding **COLORED** button to add the channel to that button's Surf list. (Up to ten channels per button may be stored.)
- 4 Repeat steps 1 through 3 to add additional channels to each of the the SURF lists.

To remove a channel from one of the SURF lists:

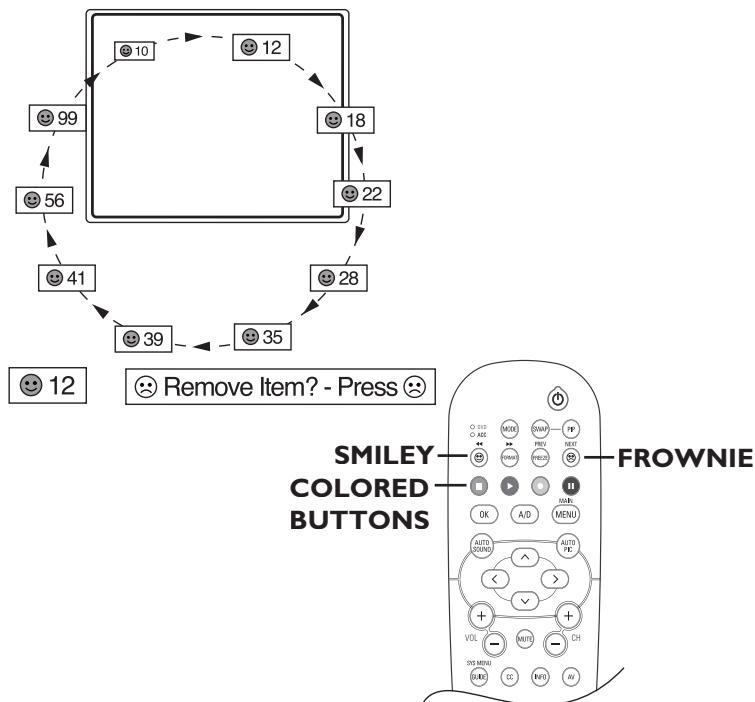
- 4 Press the **COLORED** Quadra Surf button until the desired channel appears. The screen will display the channel number with a colored **SMILEY** ☺ to indicate the Colored button it corresponds to.
- 5 While **SMILEY** channel indicator is displayed, press **FROWNIE** ☹. The screen will read, "Remove item? - Press ☹".
- 6 Press **FROWNIE** ☹ again to confirm your decision to remove the channel from the Surf list.



Repeat steps 4-6 to remove other channels from Surf lists.

The Quadra Surf buttons lets you store up to 10 channels per button (40 total). You can program the A/V Input channels for each of the four buttons making them source buttons to switch between your external or accessory devices.

- 1 Press one of the pre-programmed **COLORED** buttons. The screen will display a **SMILEY** ☺ with the first programmed channel for that surf list.
- 2 While **SMILEY** ☺ is displayed, press the same **COLORED** button to tune the second channel programmed for that specific surf list.
- 3 Repeatedly pressing the same **COLORED** button while **SMILEY** ☺ is displayed will tune all the programmed channels. Pressing the **COLORED** button again will return you to the first channel in the list.
- 4 If **SMILEY** ☺ disappears from the screen and the same **COLORED** button is pressed, the surf channels will be displayed starting with the FIRST programmed channel again.
- 5 Repeat steps 1-3 for the other three **COLORED** buttons (Surf lists) if desired.
- 6 Anytime **SMILEY** ☺ appears with the channel number, pressing **FROWNIE** ☹ will let you remove it from the list.



AS A UNIVERSAL REMOTE CONTROL - CODE ENTRY FOR ACCESSORIES

If your remote control will not operate your accessory devices, look up the four-digit code listed by your brand on pages 33 - 35. Read through steps 1 - 5 before beginning.

1 Press MODE on the remote control.



2 Press the **VCR RECORD** button on the device and release.



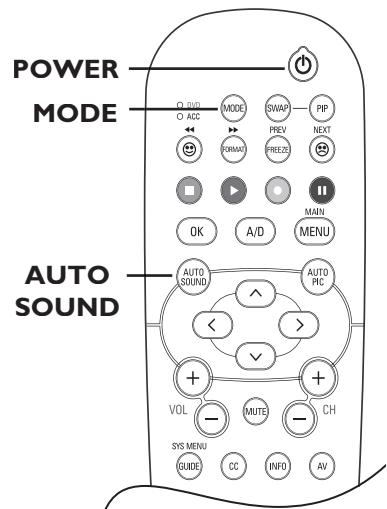
3 Press **AUTO SOUND** on the remote within 30 seconds, then release.



4 Enter the **FOUR-DIGIT REMOTE CODE NUMBER** for your device. The remote is now ready to send command to the unit

5 Point the remote at the Device. Press POWER on the remote control to turn the unit On.

If this doesn't work the first time, repeat the steps using another remote code number.



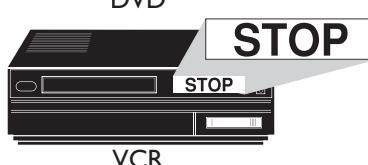
AS A UNIVERSAL REMOTE CONTROL - SEARCH METHOD FOR ACCESSORIES

The search method of programming your remote can take as long as 12 mintues to perform so we recommend you use it as a last resort. Read all the steps before beginning.

1 Turn On the device you are attempting to program.



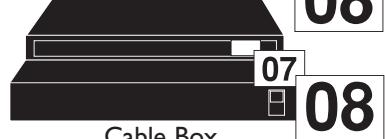
2 Place a VCR Tape or DVD disc into the device. Press the **Play** button on the device.



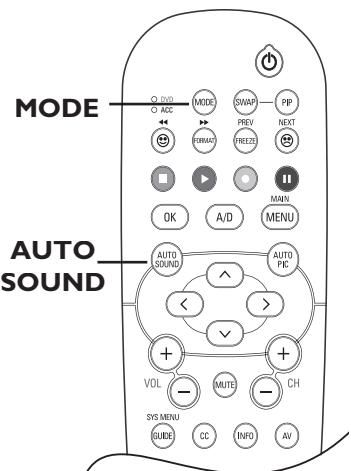
3 Press **MODE** on the remote control. Choose **VCR** for programming Video Casette Recorders or **ACC** for all other accessories.



4 Press the **VCR RECORD** button on the device and the **AUTO SOUND** button on the remote control simultaneously and hold them down. As you continue to hold down the buttons, the remote will run through its programmed code list with a command for the **VCR** or **DVD** to **STOP** or **PLAY**. For Cable Boxes and Satellite Receivers the command will be to **CHANGE CHANNELS**.



5 When the **STOP** command appears release the two buttons. For Cable Boxes and Satellite Receivers, as soon as the Channels changes ONCE, IMMEDIATELY release the buttons.



REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES

VCR CODES

Admiral	2027, 2052	Dynatech	2001	Kodak	2015, 2017
Adventura	2001	Elbe	2018	Korpel	2034
Aiko	2059	Elcotech	2034	Layco	2034
Aiwa	2001, 2017, 2062, 2070, 2072	Electrohome	2017	Lenco	2059
Akai	2021, 2029, 2038, 2060, 2063	Electrophonic	2017	LG	2079
Akiba	2034	Emerex	2012	Lloyd's	2001, 2051
Alba	2011, 2034, 2052, 2059, 2063, 2072	Emerson	2001, 2002, 2017, 2023, 2040, 2046, 2051, 2052, 2059, 2078, 2083	Loewe	2004, 2005, 2017, 2035
Ambassador	2011	ESC	2057, 2059	Logik	2004, 2034, 2057
American Action	2059	Ferguson	2021, 2039, 2064, 2065	Luxor	2023, 2025, 2027, 2037, 2038
American High	2015	Fidelity	2001	LXI	2017
Amstrad	2001, 2059, 2067, 2068	Finlandia	2035, 2037	M Electronic	2001
Anam	2017, 2042, 2054, 2057, 2059, 2082, 2084	Finlux	2001, 2022, 2035, 2037	Magnasonic	2059
Anam National	2042, 2054, 2087	Firstline	2017, 2023, 2024, 2034, 2052	Magnavox	2001, 2015, 2019, 2035
Anitech	2034	Fisher	2025, 2026, 2030, 2037	Magnin	2057
Asa	2017, 2035	Frontech	2011	Manesth	2024, 2034
Asha	2057	Fuji	2015	Marantz	2003, 2005, 2015, 2035
Asuka	2017	Funai	2001	Marta	2017
Audiovox	2017	Garrard	2001	Matsui	2004, 2016, 2036, 2052, 2070, 2072
Baird	2001, 2021, 2037, 2039	GE	2015, 2027, 2032, 2057	Matsushita	2015, 2042, 2055
Basic Line	2011, 2034, 2059	GEC	2035	Mei	2015
Beaumark	2057	General	2011	Melectronic	2018
Bell & Howell	2037	Go Video	2077, 2081	Memorex	2001, 2015, 2017, 2019, 2025, 2026, 2027, 2037, 2052, 2057, 2062, 2085, 2087, 2088
Blaupunkt	2003, 2005, 2010, 2014, 2041, 2042, 2048, 2054, 2055, 2075	Goldhand	2034	Memphis	2034
Brandt	2047, 2064, 2065	Goldstar	2017, 2018, 2053, 2079	Metz	2003, 2005, 2017, 2042, 2048, 2055, 2069
Brandt Electronic	2021	Goodmans	2001, 2017, 2034, 2059, 2075	MGA	2023, 2057
Broksonic	2002, 2040, 2046, 2052, 2078	Gradiente	2001, 2008	MGN Technology	2057
Bush	2034, 2052, 2059, 2072	Graetz	2005, 2021, 2037, 2057	Mincrva	2048
Calix	2017	Granada	2025, 2035, 2037	Minerva	2005, 2010, 2048
Canon	2015	Grandin	2001, 2017, 2034	Minolta	2022
Capehart	2011	Grundig	2003, 2005, 2007, 2010, 2034, 2035, 2048, 2050, 2054, 2069, 2071, 2075	Mitsubishi	2023, 2027, 2033, 2035, 2045
Carver	2035	Hanseatic	2017	Motorola	2015, 2027
Catron	2011	Harley Davidson	2001	MTC	2001, 2057
CCE	2034, 2059	Harman/Kardon	2018, 2035	Multitech	2001, 2034
CGE	2001	Harwood	2034	Murphy	2001
Cimline	2034	HCM	2034	NAD	2031
Cineral	2059	Headquarter	2025	National	2054
Citizen	2017, 2059	Hinari	2004, 2034, 2057, 2072	NEC	2018, 2020, 2021, 2033, 2037
Clatronic	2011	Hi-Q	2026	Neckermann	2035
Colt	2034	Hitachi	2001, 2004, 2021, 2022, 2043, 2057	Nesco	2034
Combitech	2072	Hughes Network Systems	2022	Nikko	2017
Condor	2011	Hypson	2034	Nikon	2014
Craig	2017, 2026, 2034, 2057, 2058	Imperial	2001	Noblex	2057
Crown	2011, 2034, 2059	Ingersol	2004	Nokia	2025, 2037, 2038, 2057
Curtis Mathes	2015, 2021, 2032, 2042	Interfunk	2035	Nokia	2021, 2025, 2037, 2038, 2057
Cybernex	2057	ITT	2005, 2021, 2025, 2037, 2038, 2057, 2074	Nordmende	2021, 2061, 2064, 2065, 2074
Cyrus	2035	ITV	2017, 2059	Oceanic	2001, 2021
Daewoo	2011, 2024, 2025, 2059, 2083	Jensen	2021	Okano	2063, 2070
Dansai	2034	JVC	2008, 2021, 2033, 2049, 2050, 2074, 2080	Olympus	2015, 2054
Daytron	2011	Kaisui	2034	Optimus	2017, 2027, 2031, 2037, 2042, 2077, 2086, 2087, 2088
De Graaf	2022, 2043	KEC	2017, 2059	Orion	2002, 2004, 2016, 2036, 2046, 2052, 2070, 2072, 2078
Decca	2001, 2035	Kendo	2038, 2052	Osaki	2001, 2017, 2034
Denon	2022	Kenwood	2018, 2021, 2033	KLH	2034
Dual	2021				
Dumont	2001, 2035, 2037				

REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES

VCR Codes Cont'd

Otto Versand	2035
Palladium	2005, 2017, 2021, 2034
Panasonic	2015, 2042, 2053, 2054, 2055, 2087
Pathe Cinema	2016
Pathe Marconi	2021
Penny	2015, 2017, 2018, 2020, 2022, 2057
Pentax	2022
Perdio	2001
Philco	2015, 2018, 2052, 2078
Philips	2015, 2035 (DEFAULT VCR), 2074, 2075
Phonola	2035
Pilot	2017
Pioneer	2031, 2033, 2035
Portland	2011
Profex	2066
Profitronic	2057
Proline	2001
Proscan	2032
Protec	2034
Pulsar	2019
Pye	2035
Quarter	2025
Quartz	2025
Quasar	2015, 2042, 2087
Quelle	2035
Radio Shack	2001, 2085
Radiola	2035
Radix	2017
RCA	2015, 2022, 2027, 2032, 2038, 2057
Realistic	2001, 2015, 2017, 2025, 2026, 2027, 2037
REX	2021, 2074
RFT	2075
Ricoh	2014
Roadstar	2017, 2034, 2057, 2059
Runco	2019
Saba	2021, 2049, 2050, 2061, 2064, 2065, 2074
Saisho	2004, 2016, 2036, 2052
Salora	2023, 2025, 2038
Samsung	2024, 2057, 2076, 2077
Sanky	2019, 2027
Sansui	2001, 2021, 2033, 2052, 2058, 2078
Sanyo	2025, 2026, 2037, 2057
Saville	2072
SBR	2035
Schaub Lorenz	2001, 2005, 2021, 2037
Schneider	2001, 2034, 2035
Scott	2023, 2024, 2040, 2046
Sears	2001, 2015, 2017, 2022, 2025, 2026, 2037
SEG	2057, 2066

SEI	2004, 2035
Seleco	2021
Semp	2024
Sentra	2011
Sharp	2027, 2073
Shintom	2034, 2037
Shogun	2057
Shorai	2004
Siemens	2003, 2005, 2010, 2017, 2030, 2035, 2037, 2048
Silva	2017
Singer	2024, 2034
Sinudyne	2004, 2035
Solavox	2011
Sonorol	2025
Sontec	2017
Sony	2001, 2012, 2013, 2014, 2015
STS	2022
Sunkai	2070
Sunstar	2001
Suntronic	2001
Sylvania	2001, 2015, 2023, 2035
Symphonic	2001
Tashiko	2001
Tatung	2001, 2021, 2035
Teac	2001, 2021
TEC	2011
Technics	2015, 2042, 2054
Teknika	2001, 2015, 2007, 2017
Teleavia	2021
Telefunken	2021, 2047, 2058, 2064, 2074
Tenosal	2034
Tensai	2001, 2066
Thomas	2001
Thomson	2021, 2064, 2074
Thorn	2016, 2021, 2037
TMK	2051, 2057
Toshiba	2021, 2023, 2024, 2035, 2074
Totelevision	2017, 2057
Towada	2066
Uher	2057
Unitech	2057
Universum	2001, 2006, 2010, 2017, 2035, 2038, 2048, 2057, 2067
Vector	2024
Vector Research	2018, 2020
Victor	2008, 2021, 2033
Video Concepts	2020, 2024
Videosonic	2057
Wards	2001, 2015, 2022, 2026, 2027, 2032, 2034, 2035, 2057
White Westinghouse	2052, 2059
XR-1000	2001
XR-1001	2015
XR-1002	2034
Yamaha	2018

Yamishi	2034
Yokan	2034
Yoko	2011, 2057
Zenith	2001, 2014, 2019, 2052, 2078

DVD Codes

Akai	5316
Harman/Kardon	5314
JVC	5311, 5318
Kenwood	5307
Magnavox	5302
Mitsubishi	5303
Onkyo	5302, 5317, 5319
Panasoni	5301, 5322
Philips	5302, 5308 (DEFAULT DVD)
Pioneer	5305, 5312, 5321
Proscan	5304
RCA	5304
Samsung	5313
Sharp	5320
Sony	5306
Technics	5301
Theta Digital	5312
Thomson	5310
Toshiba	5302
Yamaha	5301, 5309

Cable Box Codes

ABC	3002, 3003, 3004, 3006, 3008
Andover	3037
Bell & Howell	3006
Birmingham Cable Communication	3020
British Telecom	3002, 3012
Cabletime	3016, 3019, 3025, 3029
Clyde	3011
Contec	3009
Cryptovision	3038
Daehan	3043
Daeryung	3003
Decsat	3027
Everquesst	3007
Filmnet	3028
France Telecom	3030
GEC	3011
Gemini	3007
General Instrument	3004, 3020, 3031, 3046
Goldstar	3014, 3047
Grundig	3035
Hitachi	3004
Jasco	3007
Jerrold	3002, 3004, 3005, 3006, 3007, 3020, 3031, 3046
LG Alps	3044
Memorex	3001
Mnet	3009, 3028
Now	3041

REMOTE CONTROL DIRECT ENTRY CODES FOR ACCESSORY DEVICES

Cable Box Codes

Now	3041
Oak	3009
Pacific	3039
Panasonic	3001, 3013
Paragon	3001
Pioneer	3014, 3036
Pulsar	3001
PVP Stereo Visual Matrix	3002
Quasar	3001
Radio Shack	3007
Rembrandt	3004
Runco	3001
Salora	3026
Samsung	3014, 3040
Satbox	3024
Scientific	3003, 3032, 3049
Scientific Atlanta	3003, 3008, 3021
Seawoo	3045
Signal	3007
Signature	3004
Starcom	3002, 3007
Stargate	3007
Starquest	3007
STS	3015
Taihan	3043
Tele+1	3028
Teleservice	3022
Tocom	3005
Tongkook	3042, 3048
Toshiba	3001
Tudi	3023
Tusa	3007
United Cable	3002
Videoway	3017
Visicable+	3033
Westminster	3012
Wolsey Gene	3037
Zenith	3001, 3034

Satellite Receiver Codes

Absat	4006
Alba	4029, 4034, 4037, 4052
Aldes	4019
Amstrad	4003, 4016, 4025, 4038, 4039, 4042
Ankard	4013, 4019, 4030, 4044
Anttron	4009, 4034
Armstrong	4015
AST	4027
Astra	4005
Astro	4008, 4039, 4045
Avalon	4031
Axis	4030, 4046
Beko	4010
Best	4030

Blaupunkt	4008	Mediamarkt	4015
Boca	4015, 4043	Mediasat	4059
Brain Wave	4022	Minerva	4048
British Sky Broadcasting	4058	Morgan's	4015, 4043
BT	4053	Navex	4022
Bush	4002	Neuhaus	4039
Cambridge	4024	Neusat	4057
Canal Satellite	4059	Newhaus	4013
Canal+	4059	Nokia	4005, 4032, 4037, 4049, 4054, 4063
Channel Master	4029	Nordmende	4029
CNT	4045	Orbitech	4039
Comlink	4019	Oxford	4024
Connexions	4031	Pace	4002, 4009, 4014, 4023, 4037, 4055, 4058
Crown	4015	Palladium	4048
Cyrus	4011	Palsat	4039
D-Box	4054	Panda	4037
DDC	4029	Philips	4007, 4011, 4020, 4037, 4048, 4059
DNT	4011, 4031	Phonotrend	4019, 4050
Echostar	4031, 4036, 4061	Pioneer	4021, 4059
Emanon	4034	Planet	4061
Ferguson	4002, 4009, 4010, 4023	Promax	4037
Fidelity	4016	Prosat	4019
Finlux	4005, 4024, 4032, 4037	Quadral	4029, 4044
Fracarro	4061	Radiola	4011
Freecom	4034	Radix	4031, 4064
FTE Humax	4060	RFT	4011, 4013, 4019
Fube	4030, 4031, 4034	Saba	4023, 4045
Galaxis	4019, 4057, 4060	Sabre	4037
General Instrument	4012	Sagem	4056
Gold Box	4059	Salora	4005
Gooding	4048	SAT	4027, 4038
Goodmans	4010	Satcom	4026, 4051
Grundig	4008, 4010, 4048	Satec	4009
G-sat	4009	Satmaster	4026
Hinari	4009	Satpartner	4022, 4034, 4040, 4045
Hirschmann	4008, 4032, 4039, 4040, 4049	Schwaiger	4009, 4041
Hitachi	4037	Seemann	4031, 4046
Houston	4053	SEG	4030, 4034
Huth	4013, 4015, 4019, 4026	Siemens	4008
Intervision	4050	Skymaster	4019, 4044, 4051
Invideo	4061	Sony	4017, 4018
ITT	4005	Strong	4062
Johansson	4022	Sunstar	4043
JVC	4048	Tantec	4023, 4037
Kathrein	4004, 4006, 4008, 4011, 4035, 4041	Techniland	4026
Kreiselmeyer	4008	Technisat	4001, 4039
Kyostar	4034	Telefunken	4034
La Sat	4043, 4045	Teleka	4015, 4052
Lenco	4034		
Lennox	4050		
Lupus	4030		
Luxor	4005, 4049		
Manhattan	4037, 4045, 4050		
Marantz	4011		
Maspro	4004, 4023		
Matsui	4024, 4048		

GLOSSARY

Aspect Ratio	The ratio between the width and height of the TV picture on the screen. In a normal TV set the aspect ratio is 4 to 3 (4:3). The new aspect ratio in HDTV is 16:9 which resembles the aspect ratio in a movie theatre (Widescreen). New TV systems support both 4:3 and 16:9 aspect ratio and can automatically switch between them.
Audio Video (A/V)	A term often used when discussing a channel on a TV receiver or on video equipment, which has been especially designed to accept VCR audio-video signals. This channel automatically activates special circuitry within the TV set to prevent picture distortion and skewing. It is also used for audio-video processors, which handle both types of signals.
ATSC	ATSC: Advanced Television Systems Committee. Formed to establish technical standards for advanced television systems, including digital high definition television (HDTV).
CVBS	Composite Video Baseband Signal. In broadcast television this refers to the video signal, including the colour information and syncs
DTV	Digital television. Generic term that refers to all digital television formats, including high-definition television (HDTV) and standard-definition television (SDTV).
DOLBY Digital	Dolby Digital - Six-channel digital audio standard that is part of the U.S. digital television standard; also called AC-3 or Digital 5.1. The channels consist of front left, front right, front center, surround or rear left, surround or rear right, and a separate subwoofer
Digital Tuner	A digital tuner serves as the decoder required to receive and display digital broadcasts. It can be included inside TV sets or via a set-top box.
HDTV	The generally agreed upon definition of HDTV is approximately twice the vertical and horizontal picture resolution of today's NTSC TV, which essentially makes the picture twice as sharp. HDTV also has a screen ratio of 16:9 as compared with most of today's TV screens, which have a screen ratio of 4:3. HDTV offers reduced motion artifacts (i.e. ghosting, dot crawl), and offers 5.1 independent channels of CD-quality stereo surround sound, (also referred to as AC-3).
HDMI	High-Definition Multimedia Interface. USB-like digital video connectivity standard designed as a successor to DVI; can transmit both uncompressed digital audio and video signals; protected by HDCP digital copy protection.
Letterbox	A method of presenting widescreen images on a standard screen television. In order to preserve the aspect ratio of the original video content, the picture is scaled down so that it fits the available width of the television screen. Since the picture will not fill the screen vertically, dark bars are displayed above and below the picture.
NTSC	National television system committee. The organization that developed the analog television standard currently in use in the U.S., Canada, and Japan. Now generally used to refer to that standard. The NTSC standard combines blue, red, and green signals modulated as an AM signal with an FM signal for audio.
Progressive Scan	In Progressive Scanning all the horizontal scan lines are scanned on to the screen at one time. The Digital TV and HDTV Standards accept both Interlaced Scan and Progressive Scan broadcast and display methods.
PIP	Picture-In-Picture. A digitally based method of inserting one video image into another for special effects purposes and for monitoring several video images simultaneously on one screen (several PIP units can be used together each compressing an image into the main screen in a different location).
Resolution	Resolution: A measurement of the finest (smallest) detail that is visible in a video image. TV Resolutions may be expressed as number of pixels in an image; or more commonly, "As Total Number of (horizontally scanned) Lines used to create the image. Standard Digital TV Resolutions: SDTV: 480i - The picture is 740x480 pixels, 480p - The picture is 704x480 pixels. HDTV: 720p - The picture is 1280x720 pixels, 1080i - The picture is 1920x1080 pixels, 1080p - The picture is 1920x1080 pixels.
Widescreen	A term given to picture displays with a wider aspect ratio than NTSC 4:3. Digital HDTV or SDTV is referred to as "16:9 wide screen." Most motion pictures also have a 16:9 wide screen aspect ratio. Most Digital TVs have a screen that is wider than it is tall (if a Digital TV screen is nine inches high, it's 16 inches wide.) When watching a show recorded in the wide screen format on a Digital TV, viewers see more of the movie, while when viewing wide screen format on an analog TV, cropped edges are evident.

TROUBLESHOOTING TIPS

Check this List of Symptoms and Suggested Steps To Take before requesting Service. You may be able to solve the problem yourself. Charges for TV installation and adjustments of customer controls are not covered under your warranty.

SYMPTOMS	SUGGESTED STEPS TO TAKE
Hookup	<p>Can't get external audio equipment to work with TV.</p> <p>Use a digital audio cable for digital program if the audio equipment has a Dolby digital decoder. Connect one end of the 'SPDIF' output to the back of the TV and the other end to the digital coaxial input of the audio equipment.</p> <p>Switch on the TV and select a digital program</p> <p>Switch on the audio equipment and select the input where the TV is connected</p> <p>Adjust the volume of the audio equipment to hear the sound</p>
Installation	<p>Television is not adding any channels after automatic installation.</p> <p>Automatic installation was interrupted before installation is completed.</p> <p>Try again the automatic installation and confirm if the television is adding your local channels. Note: If the same channels is still not added, it appears that you may have a signal problem. Contact the cable provider or local broadcaster regarding the specific channel.</p> <p>Or, you may try adding the weak channels which were deleted during automatic installation. (Refer to page 13 for How to Add or Delete Weak Digital Signals).</p> <p>Check antenna connection:</p> <ol style="list-style-type: none"> 1. Check the antenna or cable TV input connection to ensure that it is properly secured to the television's antenna input. If connection is good; 2. Check if the antenna or cable TV input is connected via a external device (such as VCR, DVD Recorder or cable box) before being connected to the television. If so, bypass the external device and connect the signal directly to your television. (Refer to page 10 for Automatic Program).
Installation	<p>Cannot receive channels above 13 after Auto Programming</p> <p>If signal source used is Antenna, the channels need to be re-installed. (Refer to page 10 for Automatic Program).</p>
Installation	<p>Can't get the AV channels on the TV screen.</p> <p>Press the 'AV' button on the remote control repeatedly to select the desired AV channels. Note: SVHS can only be selected if a S-VHS device is connected and powered on.</p>
Installation	<p>TV Displays Wrong Channel or no Channels Above 13</p> <ul style="list-style-type: none"> • Repeat channel selection. • Add the desired channel numbers (using the CHANNEL EDIT control) into the TV's memory. • Check to be sure the TUNER MODES are set to the CABLE option and run the Auto Program feature to find all available channels.
	<p>Channel numbers does not follow the channel number of the programs.</p> <p>Go to TUNER MODE in the television menu and select the correct signal source, then perform the automatic installation again. (Refer to page 9).</p>
PIP	<p>Picture In Picture (PIP) is distorted or is in bad shape.</p> <p>This is due to improper installation of channels. Follow the Automatic Program steps on page 10.</p> <p>Note: If you interrupt the automatic installation, not all local channels will be installed.</p>

		TROUBLESHOOTING TIPS
SYMPTOMS		SUGGESTED STEPS TO TAKE
Settings	Weak Signal message appears on the screen	<ul style="list-style-type: none"> - Check incoming cable or antenna. Make sure it is properly secured to the TV's antenna input. <p>If connection is good:</p> <ul style="list-style-type: none"> - Check if the incoming cable or antenna is connected to any external accessory device such as VCR, VCR or setup box etc.). - Connect the signal directly to your TV instead of through the external accessory. - Perform the auto-programming (Refer to page 10) again and make sure all channels are stored in the TV's memory.
Sound	Sound - Disturbing sound (such as buzzing, clicking, crackling, humming, whistling, etc.).	<p>It is normal to hear a disturbing sound (such as buzzing, clicking, crackling, humming, whistling, etc) from a distance less than 2 meters (6 feet) with the television sound muted.</p> <p>If problem occurs on one channel, you may have a signal problem. Please contact the cable provider or local broadcaster regarding the specific channel.</p>
Sound	Sound is not in stereo.	<p>This could be due to any of the following reasons:</p> <ul style="list-style-type: none"> - Not all transmitted broadcasts by the cable or broadcast stations are in STEREO. Try checking with several major network stations to be sure that the station you selected is in STEREO. - SAP is turned ON. When SAP is turned ON, the sound mode is automatically set to MONO. - Sound mode is set to MONO. Set the sound mode to STEREO. (Refer to page 17). - STEREO is not displayed on the screen when watching from a playback device (such as DVD, DVD recorder, VCR, etc.). When using an AV input, the television will not display STEREO even though it is producing stereo sound.
General	No power to the TV	<p>Check the TV power cord. Unplug the power cord from the TV, wait 10 seconds, then reinsert the plug into the wall outlet. Power On the TV again.</p> <p>Plug the power cord directly to the wall socket and not via an extension cord.</p> <p>If you need to use an extension cord, check that the fuse on the AC power strip is not blown.</p>
General	Television is not responding to remote control.	<p>Check the remote control if necessary. Ensure the batteries are inserted according to the illustration in the battery compartment. Remove and reinsert the batteries into the remote control to ensure a good contact. Replace the existing batteries with new ones. When the remote control check is completed, randomly test some functions of the remote control on the television.</p> <p>If the television is not responding, it appears that the remote control may be defective.</p> <p>If the TV appears to be working normally, it may have been locked up because of a power surge. The television set may not respond to the remote control signals if the power plug is not secured properly into the wall outlet. Make sure the power plug is plugged directly into the wall outlet instead of via a power extension cord. Reset the television by disconnecting the power plug from the wall outlet for 10 seconds and then reconnecting it again.</p>
General	Remote control is not working	<p>Clean the remote control and the remote control sensor window on the TV.</p> <p>Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the wall outlet.</p>
General	No Picture on the TV screen	<p>Check antenna connections. Are they properly secured to the TV ANT 75 ohm plug ?</p> <p>Check the TUNER MODE control for the correct tuner setting.</p> <p>Try running the Auto Program feature to find all available channels.</p> <p>Press the AV button on the remote control to make sure the correct signal source is selected (FRONT, AV1, AV2, Current Channel, etc.).</p>

TROUBLESHOOTING TIPS

SYMPTOMS		SUGGESTED STEPS TO TAKE
General	TV Displays white lines in letterbox when viewing a DVD disc	Some DVD Discs are encoded with as much as 30% more video information to give the best possible picture quality. With the DVD Player in the 16:9 picture format, the playback of this type of disc with extra video information can produce a number of small white lines in the upper portion of the black letterbox area. With some of these discs, this problem is inherent and does not require a service call.
General	Can't get the remote to program my external devices	Refer to page 32-35 for instructions for programming the remote control for external devices peripheral using search method.

CLEANING AND CARE

WARNING Concerning Stationary Images on the TV Screen:

Do not leave stationary or letterbox images on screen for extended periods of time. This can cause uneven picture-tube aging.

Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen. Be careful not to leave nonmoving images on screen for extended periods of time, or to display the same images on screen too frequently, because subtle ghost images can be left on the picture tubes. Sources of stationary images may be DVD disks, laser disks, video games, CD-i disks, videotapes, digital television boxes, broadcast channels, cable channels, satellite channels, and others. Here are some examples of stationary images (this is not an all-inclusive list; you may encounter others in your viewing):

- DVD menus—listings of DVD disk content
- Letterbox black bars—shown at the top and bottom of the TV screen when a wide screen (16:9) movie is viewed on a TV with standard (4:3) aspect ratio.
- Video-game images and scoreboards
- Television station logos—present a problem if they are bright and stationary; moving or low-contrast graphics are less likely to cause uneven aging of the picture tube
- Stock-market tickers—presented at the bottom of the TV screen
- Shopping channel logos and pricing displays—bright and shown constantly or repeatedly in the same location on the TV screen.

Placement of the TV

- To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot; for example, in direct sunlight or near a heating appliance.
- Be sure to allow a free flow of air to and from the perforated back cover of the set.

Cleaning

- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- Regularly dust the TV with a dry, nonscratching duster to keep the TV clean.
- When cleaning the TV, take care not to scratch or damage the screen surface. Avoid wearing jewelry or using anything abrasive. Do not use household cleaners. Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool, clear water and a mild soap or detergent. Use a clean, dry cloth to dry the wiped surfaces.
- Occasionally vacuum the ventilation holes or slots in the back cover of the set.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

SPECIFICATIONS

	26PW9100D	30PW9100D	30PW9110D	32PT9100D
PICTURE / DISPLAY				
Aspect ratio	16:9	16:9	16:9	4:3
Picture Display Picture Enhancement	26" Real Flat Picture tube 2D Comb Filter Scavem, Auto Picture (5 modes) Active Control Color, Contrast, Sharpness Control	30" Real Flat Picture tube 2D Comb filter, Scavem, Auto Picture (5 modes) Active Control Color, Contrast, Sharpness Control	32" Real Flat Picture tube 2D Comb Filter, Scavem, Auto Picture (5 modes) Active Control Color, Contrast, Sharpness Control	
SOUND				
Sound Power (Output RMS) Sound Enhancement		2 x 10w Virtual Dolby		
CONVENIENCE		Picture-in-Picture Electronic Program Guide Easy toggle Digital / Analog modes Closed Captioning Full text Sleep timer Clock		
ON SCREEN DISPLAY LANGUAGES		English, French, Spanish		
CONNECTIVITY				
Rear		HDMI Component Video Input (Y Pb Pr) S-Video (SVHS) Composite Video input (CVBS) Antenna / Cable RF In SPDIF Out (Digital Only) Audio Out (Cinch)		
Side		S-Video (SVHS) Composite Video Input (CVBS)		
WEIGHT & DIMENSIONS :				
Weight (incl. Packaging) : Weight (excl. Packaging) :	42 kg / 92.4 lbs 37 kg / 81.4 lbs	59 kg / 129.8 lbs 54 kg / 118.8 lbs	76 kg / 167.2 lbs 69 kg / 151.8 lbs	
Visible diagonal / screen size :	26 inch / 66 cm	30 inch / 76 cm	32 inch / 80 cm	

Specifications and information are subject to change without notice.

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PHILIPS LIMITED WARRANTY

90 Days Labor & One (1) Year Parts & Two (2) Years Display

PHILIPS CONSUMER ELECTRONICS warrants this product against defect in material or workmanship, subject to any conditions set forth as follows:

PROOF OF PURCHASE: You must have proof of the date of purchase to receive warranted repair on the product. A sales receipt or other document showing the product and the date that you purchased the product as well as the authorized retailer included, is considered such proof.

COVERAGE:

(If the product is determined to be defective)

LABOR: For a period of ninety (90) days from the date of purchase, Philips will repair or replace the product, at its option, at no charge, or pay the labor charges to any Philips authorized repair facility. After the period of ninety (90) days, Philips will no longer be responsible for charges incurred.

PARTS: For a period of one (1) year from the date of purchase, Philips will supply at no charge, new or rebuilt replacement parts in exchange for defective parts. Philips authorized service centers will provide removal and installation of the part under the specified labor warranty.

DISPLAY: For a period of two (2) years from the date of purchase, Philips will supply, at no charge, a new or rebuilt active display device in exchange for the defective display. Philips authorized service centers will provide removal and installation of the parts under the specified labor warranty.

EXCLUDED FROM WARRANTY COVERAGE

Your warranty does not cover:

- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Philips.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- Damage occurring to product during shipping when improperly packaged or cost associated with packaging.
- Product lost in shipment and no signature verification of receipt can be provided.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Products sold AS IS or RENEWED.

TO OBTAIN WARRANTY SERVICE IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Contact Philips Customer Care Center at:
1-888-PHILIPS (1-888-744-5477)

TO OBTAIN WARRANTY SERVICE IN CANADA...

1-800-661-6162 (French Speaking)
1-888-PHILIPS (1-888-744-5477) - (English or Spanish Speaking)

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER. PHILIPS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract agreement with the PHILIPS partnership within ninety (90) days of the date of sale, the limitation on how long an implied warranty lasts does not apply.

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips, P.O. Box 671539, Marietta, GA. 30006-0026

(Warranty: 4835 710 27400)



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